



# IBM InfoSphere Streams V3.2.1 is designed to further extend analytic insight and ensure integration with the latest computing platforms

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## At a glance

**IBM® InfoSphere® Streams V3.2.1** delivers the following new features and functions:

- More consumable social and machine data accelerators
- Support for the latest versions of market leading big data solutions such as Hadoop, IBM InfoSphere BigInsights™ and IBM Watson™ Explorer

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: LE001).

## Overview

**IBM InfoSphere Streams V3.2.1** delivers a highly scalable, agile software platform to perform in-motion analytics on a wide variety of relational and nonrelational data types entering the enterprise at unprecedented volumes and speeds from thousands of real-time sources. InfoSphere Streams applies sophisticated analytics to data-in-motion and integrates with existing information management architectures, including emerging big data platforms.

InfoSphere Streams V3.2.1 is designed to further extend analytic insight and ensure integration with the latest computing platforms. InfoSphere Streams V3.2.1 makes analytic accelerators more extendable and consumable, and keeps pace with current platform releases.

## Key prerequisites

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

## Planned availability date

April 11, 2014: Electronic availability

April 25, 2014: Media availability

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## Description

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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. IBM InfoSphere Streams delivers innovative technology and enables organizations to process extremely large data volumes at unprecedented speeds.

### **New capabilities in Streams V3.2.1**

#### **Extend and consume analytic InfoSphere Insight**

- *Social and Machine Data Accelerator improvements*
  - Support for social analytics surrounding life events such as travel, new home, graduation, new business, or job change and new hobbies
  - Streamlined process for persisting and querying analytic results to HBase
- *Extended R Analytics support and real-time scoring across InfoSphere Streams and IBM InfoSphere BigInsights*

#### **Support for the latest platforms**

- *Market-leading platform integration*
  - Support for Hadoop 2.0.x and Hadoop 2.2.x
  - Remote GPFS™ support for HDFS operators
  - Kerberos authentication support for InfoSphere Streams HDFS operator
  - Support for the most current release of IBM Watson Explorer V9.0

InfoSphere Streams V3.2.1 comes standard with several toolkits and accelerators to help provide quicker time to value. These include Financial, Data Mining, Telecommunications Event Data Analytics, Machine Data Analytics, Social Media Analytics, Messaging, Internet, Big Data, Complex Event Processing, and Advanced Text Analytics.

InfoSphere 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 camers with ultra-low latencies. Furthermore, InfoSphere Streams also provides the incremental capabilities to process unstructured data such as audio, video, text, and EKG.

#### **Accessibility by people with disabilities**

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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](http://www.ibm.com/able/product_accessibility/index.html)

Accessibility features supported by InfoSphere Streams V3.2.1:

- 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 US Rehabilitation Act

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IBM InfoSphere Streams is capable as of April 25, 2014, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested on the following website

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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## Product positioning

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IBM InfoSphere Streams offers an ultra-high performance analytics platform for real-time analytic processing. Real-time analytic processing 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 the business intelligence and complex event processing 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 InfoSphere 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.

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

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## Availability of national languages

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Product description	Language	GA date
Developer Edition v3.2.1	English	April 25, 2014
IBM InfoSphere Streams NPE v3.2.1	English	April 25, 2014
IBM InfoSphere Streams v3.2.1	English	April 25, 2014

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## Program number

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Program number	VRM	Program name
5724-Y95	3.2.1	IBM InfoSphere Streams

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## Offering Information

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Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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## Publications

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No publications are shipped with this product.

Soft copy 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  
<http://pic.dhe.ibm.com/infocenter/streams/v3r2/index.jsp>
  - 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 Quick Start Edition
- 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
- Text Toolkit
- Learning About Streams Using the Commodity Purchasing Sample Application

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.

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

- x86 architecture (64 bit) or IBM 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.
- Mozilla Firefox V10, or later.
- Microsoft™ 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 V3.2.1 is compatible with applications that were developed for use on InfoSphere Streams V3.0, V3.1, and V3.2.

#### **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 IBM 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 of InfoSphere Streams.

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**

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### ***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 V3.2.1

- IBM InfoSphere Streams - DVD
- IBM DB2® - DVD

## **Security, auditability, and control**

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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.
- Public Key Infrastructure (PKI) 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.

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## 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 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.

## IBM InfoSphere Streams

### RVU table

Minimum Cores	Maximum Cores	RVUS per Core
1	12	1.00
13	32	0.84
33	64	0.61
65	100	0.46
101	250	0.38
251	max	0.30

### Passport Advantage program licenses

#### IBM InfoSphere Streams

Part description	Part number
IBM InfoSphere Streams	
IBM InfoSphere Streams per Resource Value Unit Annual SW S&S Rnw1	E0F5ZLL
IBM InfoSphere Streams per Resource Value Unit Lic + SW S&S 12 Mo	D0V9GLL
IBM InfoSphere Streams per Resource Value Unit SW S&S Reinststate 12 Mo	D0V9HLL

#### IBM InfoSphere Streams

Part description	Part number
IBM InfoSphere Streams for Non-Production Environment	
InfoSphere Streams Non-Production Environment RVU Annual SW S&S Rnw1	E0F5YLL
InfoSphere Streams Non-Production Environment RVU Lic + SW S&S 12 Mo	D0V9ELL
InfoSphere Streams Non-Production Environment RVU SW S&S Reinststate 12 Mo	D0V9FLL

#### 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 V3.2.1	
Developer Edition Red Hat Enterprise Linux (RHEL) base server) V3.2.1 Mass	BB1H7EN
IBM InfoSphere Streams NPE V3.2.1	
IBM InfoSphere Streams NPE Red Hat Enterprise Linux (RHEL) base server) V3	BB1H8EN
IBM InfoSphere Streams V3.2.1	
IBM InfoSphere Streams Red Hat Enterprise Linux (RHEL) base server) V3.2.1	BB1H6EN



## Passport Advantage customer: Media pack entitlement details

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

### IBM InfoSphere Streams V3.2.1

Entitled maintenance offerings description	Media packs description	Part number
IBM InfoSphere Streams per Resource Value Unit	IBM InfoSphere Streams Red Hat Enterprise Linux (RHEL) base server) V3.2.1	BB1H6EN

### IBM InfoSphere Streams NPE V3.2.1

Entitled maintenance offerings description	Media packs description	Part number
IBM InfoSphere Streams for Non-Production Environment per Resource Value Unit	IBM InfoSphere Streams NPE Red Hat Enterprise Linux (RHEL) base server) V3	BB1H8EN

### Developer Edition V3.2.1

Entitled maintenance offerings description	Media packs description	Part number
IBM InfoSphere Streams Developer Edition per Authorized User	Developer Edition Red Hat Enterprise Linux (RHEL) base server) V3.2.1 Mass	BB1H7EN

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## Terms and conditions

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

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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 numbers**

Program name	Program number	LI number
IBM InfoSphere Streams for Non-Production Environment V3.2.1	5724-Y95	L-LFOY-9CAM9Z
IBM InfoSphere Streams Developer Edition V3.2.1	5724-Y95	L-LFOY-9CAM9X
IBM InfoSphere Streams V3.2.1	5724-Y95	L-LFOY-9CAM9V

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>

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Yes

**Limited warranty**

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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**

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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.

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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

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

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

**System i® Software Maintenance applies**

No

**Educational allowance available**

Not applicable.

**Statement of good security practices**

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

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Now integrated into the base operating system of AIX® V5.3, AIX V6.1, and AIX V7.1, 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 also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type `smitty esa_main`, and select Configure Electronic Service Agent. In addition, ESA now includes a powerful Web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

<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.

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### Benefits

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**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 website 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

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

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## Order now

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Fax: 800-2IBM-FAX (242-6329)  
For IBM representative: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)  
For IBM Business Partner: [pwcs@us.ibm.com](mailto:pwcs@us.ibm.com)  
Mail: IBM Teleweb Customer Support  
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Reference: LE001

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**Note:** Shipments will begin after the planned availability date.

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