



# IBM InfoSphere BigInsights Enterprise Edition V1.3 delivers improved performance, manageability, consumability, analytics, and integration

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## At a glance

**InfoSphere® BigInsights Enterprise Edition V1.3** is an analytics platform that enables analysis of a wide variety of unconventional information types and formats at large-scale volumes, without upfront preprocessing.

- Includes a design built on Apache Hadoop technology to meet big data requirements
- Includes data discovery to enable exploratory analysis and modeling of unconventional data types
- Integrates with IBM® InfoSphere Warehouse, DB2®, and Netezza® to allow data transfer leveraging MapReduce for parallelism and scale

## Overview

**IBM InfoSphere BigInsights Enterprise Edition V1.3** delivers improved performance, manageability, consumability, analytics, and integration with new capabilities including:

### Performance

- **New compression feature:** Transparently compresses data on disk in order to maximize storage space and decrease storage infrastructure requirements.
- **BigInsights Scheduler enhancement:** Provides a technique to transparently balance workloads across mappers. Starting a mapping task involves an overhead known as startup time. For certain workloads this startup time is disproportional to the actual task execution time. This imbalance becomes even more prevalent when the workload is comprised of large number of small files. For such workloads the improved BigInsights scheduler can substantially increase the performance by transparently altering how tasks are handled. This technique can realize performance gains of greater than 30% or more for such workloads compared to the default mode of task scheduling.
- **Large scale indexing:** Adds capabilities for efficient, large-scale index generation. Generated indexes are enhanced Lucene-based indexes, generated in parallel using MapReduce. There are options to build distributed and faceted (taxonomy) indexes.

## Consumability

- **Development tools enhancements:** Can help increase productivity in building text analytics and Java™ map reduce applications, cluster file browsing, job submission, Jaql and Hive development, and for publishing applications to the web console.
- **Secure REST access:** This new function allows for REST-based access to the cluster to leverage applications and to access data.

## Manageability

- **Web administration tool enhancements:** Enables viewing cluster health; manage secure cluster access; and manage and installing cluster instances.
- **New Rich Web tool support:** Helps to run Big Data applications, view progress, graph results, integrate with BigSheets, and manage and schedule workflows, jobs, tasks, and files.
- **New secure Import and Export features:** Includes web applications for securely importing from files, relational database, web and social media to the cluster and exporting to files and relational databases from the cluster.

## Integration

- **Integration capabilities:** Adds integration capabilities with Informix®, InfoSphere Streams, Oracle, Teradata, and other JDBC data sources.

InfoSphere BigInsights can be used with other IBM products for advanced analytics and a more comprehensive information strategy. It lets you combine traditional data warehouse analysis with dynamic insights from unstructured and semi-structured data. It gives you a more complete view of the business not possible before.

Combined with IBM InfoSphere Streams and IBM InfoSphere Warehouse, it can extend analysis to encompass information-in-motion and information accumulated over a long period of time.

For additional information on IBM InfoSphere BigInsights, refer to

<http://www.ibm.com/software/data/infosphere/biginsights>

To order, contact your IBM representative, an IBM Business Partner, or the Americas Call Centers at: 800-IBM-CALL Reference: YE001

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## Key prerequisites

For details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

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## Planned availability date

- November 18, 2011: Electronic availability
- December 16, 2011: Media availability

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## Program number

Program number	VRM	Program name
5725-C09	1.3.0	IBM InfoSphere BigInsights Enterprise Edition

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## Education support

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IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training Web site

<http://www.ibm.com/services/learning/>

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

**IBM Training:** Available from IBM training, the newest offerings to support your training needs, enhance your skills and boost your success with IBM software. IBM offers a complete portfolio of training options including traditional classroom, private onsite and eLearning courses. Many of our classroom courses are part of IBM's "Guaranteed to run program" ensuring your course will never be canceled. We have a robust eLearning portfolio including Instructor-Led Online (ILO) courses; Self Paced Virtual courses (SPVC) and traditional Web Based Training (WBT) courses. A perfect complement to classroom training, our eLearning portfolio offers something for every need and every budget; simply select the style that suits you.

Be sure to take advantage of our custom training plans to map your path to acquiring skills. Enjoy further savings when you purchase training at a discount with an IBM Education Pack - online account - flexible and convenient way to pay, track and manage your education expenses online.

Check your local Information Management Training and Education website or with your training representative for the most recent training schedule and course listing.

Course title	Classroom	Instructor-led online	Self-paced virtual classroom	Self-paced virtual classroom
Self Paced Virtual Classroom	DW60 or 4W60	3W60	2W60	1W60

### IBM Mastery

Mastery tests help to assure an individual has achieved a foundation of knowledge and understanding of a subject matter. IBM Mastery

Exam number	Exam name
M97	BigInsights Technical Mastery

For additional information about this exam, visit

[http://www.ibm.com/certify/mastery\\_tests/ovrM97.shtml](http://www.ibm.com/certify/mastery_tests/ovrM97.shtml)

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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

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

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## Publications

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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.

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## Technical information

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### **Specified operating environment**

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#### **Hardware requirements**

- x86 64-bit systems with a minimum of 4 GB memory
- Minimum 30 GB of disk storage

#### **Software requirements**

At least one of the following:

- Red Hat Enterprise Linux™ (RHEL) 5.0 Update 3 Advanced Platform x86-64
- Red Hat Enterprise Linux (RHEL) 5.0 Update 4 Advanced Platform x86-64
- Red Hat Enterprise Linux (RHEL) 5.0 Update 5 Advanced Platform x86-64
- Red Hat Enterprise Linux (RHEL) 5.0 Update 6 Advanced Platform x86-64
- Red Hat Enterprise Linux (RHEL) Server 6.0 x86-64
- SUSE Linux Enterprise Server (SLES) 11.0 x86-64
- SUSE Linux Enterprise Server (SLES) 11.0 SP1 x86-64

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.

### **Planning information**

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#### **Packaging**

Physical media

- IBM InfoSphere BigInsights Enterprise Edition V1.3 - DVD
- IBM Data Studio V3.1 (5724-DST)

Downloadable

- IBM InfoSphere BigInsights Enterprise Edition V1.3 software
- IBM InfoSphere BigInsights Enterprise Edition V1.3 Quick Start Guide
- IBM Data Studio V3.1 software and Quick Start Guide

## Security, auditability, and control

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IBM InfoSphere BigInsights Enterprise Edition uses the security and auditability features of the host hardware or software.

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

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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 BigInsights	BigInsights	InfoSphere BigInsights
Program name	PID number	Charge unit description
IBM InfoSphere BigInsights	5725-C09	Per Resource Value Unit for Linux on System z
IBM InfoSphere BigInsights	5725-C09	Per Resource Value Unit

### Charge metrics definitions

#### 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.

The resource for the purpose of the RVU calculation is the number of Terabytes of storage managed by the Program. A Terabyte is 2 to the 40th power bytes. Licensee must obtain RVU entitlements for this Program sufficient to cover the storage managed by the Program in the Licensee's environment.

Value Unit Exhibit 027 (VUE027) is used for the purpose of calculating the number of RVUs required. Value Unit Exhibit 027 (VUE027) is shown in the table below.

The following examples are provided to illustrate your licensing requirements.

IBM InfoSphere BigInsights Enterprise Edition requires entitlement for all resources managed (terabytes of storage). In this case, the resources to enter into the volume tiering table to calculate RVUs are the total terabytes of storage being managed by IBM InfoSphere BigInsights Enterprise Edition.

## Units to order

RVUs are calculated based upon the following volume tiering table and are rounded up to the next whole number.

### Value Unit Exhibit 027 (VUE027)

Cumulative usage level	Total terabytes (A)	RVUs per terabyte (B)	RVUs required (A) x (B)
1 - 12 terabytes	-	1.0000	0.0000
13-32 terabytes	-	0.8455	0.0000
33-64 terabytes	-	0.6137	0.0000
65-100 terabytes	-	0.4639	0.0000
101-250 terabytes	-	0.3870	0.0000
251+ terabytes	-	0.3097	0.0000
Total resources	-	-	-
Total RVUs	-	-	-

Products may also have program-specific licensing terms, which are described later in this document. Consult the program-specific licensing terms to determine total licensing requirements for the applicable products.

## Pricing scenario for InfoSphere BigInsights Enterprise Edition

### Transaction 1

Assume customer ABC is starting off by setting up an InfoSphere BigInsights Enterprise Edition cluster with 10 machines and plans to store 3 terabytes of data per machine in the cluster. The total terabytes are entered into the volume tiering table to get RVU to order. In this case, there are 30 chargeable terabytes.

RVU required.

Total RVU to order to entitle ABC's environment for the 30 terabytes are determined as follows:

RVU metric	Total terabytes (A)	RVUs per terabytes (B)	RVU requitered (A) x (B)
1-12 terabytes	12	1.0000	12.0000
13-32 terabytes	18	0.8455	15.2190
33-64 terabytes	-	0.6137	0.0000
65-100 terabytes	-	0.4639	0.0000
101-250 terabytes	-	0.3870	0.0000
251+ terabytes	-	0.3097	0.0000
Total resources	30	-	-
Total RVUS	-	-	27.2190

Total RVUs to order (rounded up) 28

Customer ABC would order 28 RVUs to entitle their environment for the 30 terabytes managed.

### Transaction 2

In Phase 2, customer ABC looks to increase the terabytes managed on the cluster that they had already installed InfoSphere BigInsights Enterprise Edition on. They will add another 1 terabyte of data on each of the 10 machines in the cluster. The new total of terabytes managed in customer ABC's environment would be the previous 30 plus 10 incremental for a new total of 40 terabytes.

The new total of RVUs required to entitle their environment would be calculated as follows:

RVU metric	Total terabytes (A)	RVUs per terabytes (B)	RVUs requitered (A) x (B)
1-12 terabytes	12	1.0000	12.0000
13-32 terabytes	20	0.8455	16.9100
33-64 terabytes	8	0.6137	4.9096
65-100 terabytes	0	0.4639	0.0000
101-250 terabytes	0	0.3870	0.0000
251+ terabytes	0	0.3097	0.0000
New total resources	40	-	-
New total RVUS	-	-	33.8196

Total RVUs required to entitle new environment (rounded up) 34.

Previous or existing RVU entitlements from first transaction (28).

Total RVUs to order 6.

Customer ABC would need to order an additional 6 RVUs to entitle their new total of 40 terabytes.

Note that the discount for the new storage is greater based on existing RVU entitlement.

### Transaction 3

In Phase 3, customer ABC looks to increase the terabytes managed by InfoSphere BigInsights Enterprise Edition to 140 terabytes. They will add another 50 machines in the cluster, and a 100 terabytes of additional data. The new total terabytes managed in the ABC's environment would be the previous 40 plus 100 terabytes which equals 140 terabytes.

The new total of RVUs required to entitle their environment would be calculated as follows:

RVU metric	Total terabytes (A)	RVUs per terabytes (B)	RVUs requitered (A) x (B)
1-12 terabytes	12	1.0000	12.0000
13-32 terabytes	20	0.8455	16.9100
33-64 terabytes	32	0.6137	19.6384
65-100 terabytes	36	0.4639	16.7004
101-250 terabytes	40	0.3870	15.4800
251+ terabytes	0	0.3097	0.0000
New total resources	140	-	-
New total RVUS	-	-	80.7288

Total RVUs required to entitle new environment (rounded up) 81.

Existing RVU entitlements from previous transactions (34).

Total RVUs to order 47.

Customer ABC would need to order an additional 47 RVUs to entitle their new total of 140 terabytes managed.

## Passport Advantage program licenses

### InfoSphere BigInsights

Part description	Part number
IBM InfoSphere BigInsights	
InfoSphere BigInsights Per Resource Value Unit Annual SW S&S Rnw1	E0C4JLL
InfoSphere BigInsights Per Resource Value Unit Lic + SW S&S 12 Mo	D0JIFLL
InfoSphere BigInsights Per Resource Value Unit SW S&S Reinstate 12 Mo	D0JIGLL

### Passport Advantage supply

InfoSphere BigInsights V1.3.0	
InfoSphere BigInsights SUSE Linux Enterprise Server (SLES),Red Hat Enterpr	BB19UEN

## 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.

### InfoSphere BigInsights V1.3.0

Entitled maintenance offerings description	Media packs description	Part number
IBM InfoSphere BigInsights per Resource Value Unit	InfoSphere BigInsights SUSE Linux Enterprise Server (SLES),Red Hat Enterpr	BB19UEN
InfoSphere BigInsights per RVU zEnt BladeCenter® Ext and Lin System z®	InfoSphere BigInsights SUSE Linux Enterprise Server (SLES),Red Hat Enterpr	BB19UEN

## Cross-platform products

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### Cross-platform products for use on System z

Order the part numbers that follow when the product is used for either the development of code that will be deployed on System z servers or when the product will be communicating or transferring data between a distributed server and a System z server. Otherwise order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement

### Cross-platform product for use on System z IFL engines

Order the part numbers that follow when the product is intended to run on the Linux operating system on System z IFL engines. If the product is not intended to run on the Linux operating system on System z IFL engines, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

### InfoSphere BigInsights

Part description	Part number
IBM InfoSphere BigInsights	
InfoSphere BigInsights Per Resource VU Lin on Sys z Annual SW S&S Rnw1	E0DAELL
InfoSphere BigInsights Per Resource VU Lin on Sys z Lic + SW S&S 12 Mo	D0N85LL
InfoSphere BigInsights Per Resource VU Lin on Sys z SW S&S Reinstate 12 Mo	D0N86LL

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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.

### **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.

### **License Information form number**

Program name	Program number	Form number
Infosphere BigInsights	5725-C09	L-MLOY-8DNSTR

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

### **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

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

### **IBM Operational Support Services - SoftwareXcel**

No

### **System i Software Maintenance applies**

No

### **Educational allowance available**

Not applicable.

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## **Prices**

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

### **Passport Advantage**

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

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

### **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 IBM ID and password are required.

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

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## **Order now**

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To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)  
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Internet: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)  
Mail: IBM Teleweb Customer Support  
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3500 Steeles Ave. East, Tower 3/4  
Markham, Ontario  
Canada  
L3R 2Z1

Reference: YE001

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

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