



IBM Operations Analytics - Predictive Insights V1.3.1 and IBM Operations Analytics - Log Analysis V1.3.0 extend capabilities

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At a glance

IBM^(R) Operations Analytics - Predictive InsightsTM V1.3.1

Specific use-case analytic algorithms

- Memory leak
- Hang
- Flat activity
- Disk thrashing

The analytic algorithms, used by Operations Analytics - Predictive Insights, learn the normal behavior of the monitored metrics faster.

- Algorithms will start outputting anomalies as soon as they have consumed enough good data as opposed to after a fixed period of two weeks. In some cases, this can reduce the learning period down to three to five days.

More accurate and less noise

- Reduced output from existing algorithms
- Added targeted algorithms for specific problem types based on user data

IBM Operations Analytics - Log Analysis V1.3.0

- Supports globally dispersed organizations
 - Globalized product plus two insight packs
 - Support for 10 languages
- Faster problem identification
 - Provides real-time alerts that eliminate manual checking for command and known conditions
 - Automatically refreshes the dashboards, eliminating manual intervention
 - Helps improve problem resolution time
- Support for large scale, cheaper storage through integration with IBM InfoSphere^(R) BigInsightsTM for Apache Hadoop
 - Can store many terabytes of data in InfoSphere BigInsights for Apache Hadoop

- Has the ability to do historical diagnosis by searching directly in InfoSphere BigInsights Hadoop
- Delivers up to 100% increase in storage

Order now

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

Reference: YE001

Overview

IBM Operations Analytics - Predictive Insights V1.3.1

IBM Operations Analytics - Predictive Insights V1.3.1 delivers a wide range of predictive outage avoidance capabilities that:

- Helps maximize early detection of service and application issues, and spots problems while they are emerging to help avoid service disruptions and outages that affect your business.
- Automatically learns the normal operational behavior of complex infrastructures, such as a cloud, and identifies problems before you know to look for them.
- Often catches problems before you know they are a problem.
- Analyzes performance and monitoring data across silos, domains, and vendors.
- Offers a single analytic solution for complete heterogeneous monitoring of your infrastructure.
- Extends these rich benefits with improved scalability and speed combined with a lower cost of ownership and improved analytics.

IBM Operations Analytics - Log Analysis V1.3.0:

- Provides the ability to rapidly search, visualize, and analyze operational data.
- Receive alerts about known errors and recommendations to resolve the issues, allowing you to quickly isolate, determine the root cause, and get additional insights that can reduce mean time to resolution (MTTR) and manual labor.

Key prerequisites

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

Planned availability date

IBM Operations Analytics - Predictive Insights V1.3.1

- March 12, 2015: Electronic download

IBM Operations Analytics - Log Analysis V1.3.0

- March 12, 2015: Electronic download
- April 1, 2015: Physical media

Description

IBM Operations Analytics - Predictive Insights V1.3.1

Operations Analytics - Predictive Insights learns the relationships between metrics, and alerts you without the need to set static thresholds. It can help:

- Alert on abnormal behavior early and resolve problems before outages occur.
- Dramatically reduce the need to set manual thresholds.
- Reduce the number of events with more accuracy.
- Empower subject matter experts to understand the relationships between key performance indicators. Operations Analytics - Predictive Insights learns these based on mathematical correlation and related anomalies.

Benefits of Operations Analytics - Predictive Insights:

- Simplified behavioral learning: No complex manual intervention to set up.
- Machine-learning algorithms: Next generation multivariate analytics provide meaningful early warning alerts.
- Large capacity: Big data streaming engine ensures solution can grow with your needs.
- Heterogeneous environments: Import or ingest performance metric data from IBM or third-party monitoring solutions.

IBM Operations Analytics - Log Analysis V1.3.0

Operations Analytics - Log Analysis provides the ability to rapidly search, visualize, and analyze operational data so you can identify, isolate, and resolve problems rapidly. It can help:

Reduce time required for root cause analysis.

- Rapidly searching, filtering, and visualizing results
- Analyze logs and other unstructured data
- Provide alerts and warnings about known error conditions

Diagnose all your environments in one simple application, including IBM z Systems sources.

- Leverage diagnostic expertise from IBM and business partners using domain specific extensions
- Increase maintainability of an existing software application through custom-built Insight Pack
- Embed IBM or other vendor expertise into software components, including IBM WebSphere^(R) Application Server and IBM DB2^(R)

Improve overall service availability and faster problem resolution.

- Bring relevant unstructured data into problem investigations to help resolve issues. Gain faster access to pertinent information
- Link support documentation and operations notes dynamically to logs or warning messages
- Use text analytics and parse log data with context sensitive expressions

Reference information

For additional information, refer to Software Announcement [213-480](#), dated October 29, 2013.

Program number

Program number	VRM	Program name
5725-K26	1.3.1	IBM Operations Analytics - Predictive Insights
5725-K26	1.3.0	IBM Operations Analytics - Log Analysis

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage^(R) website

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

Publications

No publications are shipped with these programs.

The IBM Publications Center portal is located at

<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. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Services

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To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

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Technical information

Specified operating environment

Hardware requirements

The hardware requirements vary according to the volume of data ingested or managed by the program.

IBM Operations Analytics - Predictive Insights V1.3.1

Minimum requirements:

- 4x CPU cores
- 16 GB RAM
- 160 GB disk

IBM Operations Analytics - Log Analysis V1.3.0

Minimum requirements:

- Operating system: Red Hat Enterprise Linux™ (RHEL) 6.x x86_64 or SUSE Linux Enterprise Server (SLES) 11
- 16 Cores
- 96 GB RAM
- 1.2 TB RAID 1+0

For actual sizes to support your target environment, contact your IBM representative or sales team.

Software requirements

The software requirements may vary depending on your specific configuration.

IBM Operations Analytics - Predictive Insights V1.3.1

Minimum requirements:

- Operating system:
 - Red Hat Enterprise Linux 6.x 64 bit
- Browsers
 - Internet Explorer 9, 10, 11, Firefox 24 Extended Support Release (ESR), and Google Chrome 29 (for Dash)
 - Internet Explorer 8, 9, Firefox 17 ESR (for TIP)

IBM Operations Analytics - Log Analysis V1.3.0

Minimum requirements:

- RHEL 5.x 64 bit, or RHEL 6.x 64 bit, or SUSE Linux Enterprise Server (SLES) 11 64 bit
- Firefox ESR 17, or later
- Perl version 5.8.8, or later
- Python version 2.6.6
- 32 bit and 64 bit compat-libstdc++ and libstdc++ libraries

Visit the Software Product Compatibility Reports for Operations Analytics at

<http://pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity/index.html>

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

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Access the IBM Support Portal

<http://ibm.com/support>

Access the online Service Request tool

<http://ibm.com/support/servicerequest>

Planning information

Packaging

IBM Operations Analytics - Predictive Insights V1.3.1 is delivered through the Internet. There is no physical media.

IBM Operations Analytics - Log Analysis V1.3.0 is distributed with the following:

- IBM International Program License Agreement
- Media

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

The programs in this announcement use the security and auditability features of the host 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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To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

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Product group: Availability and Performance products

Product: 5725-K26

Product category: Operations Analytics - Predictive Insights; Operations Analytics - Log Analysis

Passport Advantage

IBM Operations Analytics - Predictive Insights V1.3.1

Program name/Description	Part number
PA per RVU Lic + Sw S&S 12 Mo	D11QCLL
PA per RVU Annual SW S&S Renewal	E01HJLL
PA per RVU SW S&S Reinstate 12 Mo	D11QDLL

IBM Operations Analytics - Log Analysis V1.3.0

Program name/Description	Part number
PA per RVU Lic + SW S&S 12 Mo	D17CQLL
PA per RVU Annual SW S&S Renewal	E0K3FLL
PA per RVU SW S&S Reinstate 12 Mo	D17CRLL

Cross-platform product for use on z Systems

Order the part numbers that follow when the product is used for either the development of code that will be deployed on z System servers or when the product will be communicating or transferring data between a distributed server and a z Systems 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.

IBM Operations Analytics - Predictive Insights V1.3.1

Program name/Description	Part number
Lic + SW S&S 12 Mo	D14BRLL
Annual SW S&S Rnwl	E0JC7LL
SW S&S Reinstate 12 MO	D14BSLL

IBM Operations Analytics - Log Analysis V1.3.0

Program name/Description	Part number
Lic + SW S&S 12 Mo	D17CSLL
Annual SW S&S Rnwl	E0K3GLL
SW S&S Reinstate 12 Mo	D17CTLL

IBM Operations Analytics - Log Analysis V1.3.0

Media pack description	Part number
IBM Operations Analytics - Log Analysis V1.3 Multiplatform Multilingual Media Pack	BJ175EN

IBM Operations Analytics - Predictive Insights V1.3.1 is delivered through the Internet. There is no physical media.

Charge metric

Program name	Part number or PID number	Charge metric
IBM Operations Analytics - Predictive Insights V1.3.1	5725-K26	RVU
IBM Operations Analytics - Log Analysis V1.3.0	5725-K26	RVU

Licensing metric definitions

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 the licensee's environment for the specific resources as specified in the table below and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program or resource.

Notes:

- Some programs may require licenses for the resources available to and the resources being managed by the program. In that case, the following applies. In addition to the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.

Standby or backup systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other license or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes.

Cold: A copy of the program may reside, for backup purposes, on a machine as long as the program is not started. There is no additional charge for this copy.

Warm: A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.

Hot: A copy of the program may reside for backup purposes on a machine, is started, and is doing work. The customer must acquire a license or entitlements for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities such as mirroring of transactions, updating of files, synchronization of programs, data or other resources (for example, active linking with another machine, program, database or other resource, and so on), or any activity or configurations that would allow an active hot switch or other synchronized switch over between programs, databases, or other resources to occur.

In the case of a program or system configuration that is designed to support a high availability environment by using various techniques (for example, duplexing, mirroring of files, or transactions, maintaining a heartbeat, active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

IBM Operations Analytics - Predictive Insights V1.3.1

General charge terms

The resource for the purpose of RVU calculation is Metric Streams managed by the program. A Metric Stream is a time series variable extracted or sent from an external data source at regular intervals and imported and processed by the program's analytic algorithm. Examples include, but are not limited to, CPU usage, memory usage, packet delay, packet loss, dropped calls, HTTP requests, and video mean opinion score.

Sufficient entitlements must be obtained to cover the maximum number of Metric Streams analyzed by the program.

Resource Value Unit conversion table (VUE105A):

- From 1,000 to 2,500 resources, RVUs per resource = 1 RVU for a maximum of 2,500 RVUs at this level (cumulative RVUs of 2,500)
- From 2,501 to 5,000 resources, RVUs per resource = 0.8 RVU for a maximum of 2,000 RVUs at this level (cumulative RVUs of 4,500)
- From 5,001 to 10,000 resources, RVUs per resource = 0.7 RVU for a maximum of 3,500 RVUs at this level (cumulative RVUs of 8,000)
- From 10,001 to 30,000 resources, RVUs per resource = 0.65 RVU for a maximum of 13,000 RVUs at this level (cumulative RVUs of 21,000)
- From 30,001 to 50,000 resources, RVUs per resource = 0.55 RVU for a maximum of 11,000 RVUs at this level (cumulative RVUs of 32,000)
- From 50,001 to 100,000 resources, RVUs per resource = 0.5 RVU for a maximum of 25,000 RVUs at this level (cumulative RVUs of 57,000)
- From 100,001 to 300,000 resources, RVUs per resource = 0.46 RVU for a maximum of 93,000 RVUs at this level (cumulative RVUs of 150,000)
- From 300,001 to 500,000 resources, RVUs per resource = 0.4 RVU for a maximum of 80,000 RVUs at this level (cumulative RVUs of 230,000)
- From 500,001 to 1,000,000 resources, RVUs per resource = 0.36 RVU for a maximum of 180,000 RVUs at this level (cumulative RVUs of 410,000)
- For more than 1,000,001 resources, RVUs per resource = 0.32 RVUs

Pricing example

The required number of Metric Streams to be ingested by the analytics is 80,000 Metric Streams.

- The total number of resources to be managed is 80,000 Metric Streams.
- Convert the total volume to RVUs. Using VUE105A, 80,000 Metric Streams requires 47,000 RVUs.
- The customer should purchase 47,000 licenses of Operations Analytics - Predictive Insights.

IBM Operations Analytics - Log Analysis V1.3.0

General charge terms

The resource for the purpose of RVU calculation is a gigabyte. A gigabyte is 2 to the 30th power bytes (1,073,741,824 bytes). Sufficient entitlements must be obtained to cover the highest 30-day rolling average of the daily number of gigabytes of data processed by the program.

Resource Value Unit conversion table (VUE103A)

- From 1 to 20 resources, 1.00 RVU per resource
- From 21 to 50 resources, 20.0 RVUs plus 0.83 RVUs per resource above 20
- From 51 to 100 resources, 44.9 RVUs plus 0.80 RVUs per resource above 50
- From 101 to 250 resources, 84.9 RVUs plus 0.76 RVUs per resource above 100
- From 251 to 500 resources, 198.9 RVUs plus 0.60 RVUs per resource above 250
- From 501 to 1,000 resources, 348.9 RVUs plus 0.50 RVUs per resource above 500
- From 1,001 to 5,000 resources, 598.9 RVUs plus 0.47 RVUs per resource above 1,000
- From 5,001 to 10,000 resources, 2,478.9 RVUs plus 0.40 RVUs per resource above 5,000
- From 10,001 to 25,000 resources, 4,478.9 RVUs plus 0.36 RVUs per resource above 10,000
- For more than 25,000 resources, 9,878.9 RVUs plus 0.33 RVUs per resource above 25,000

Pricing example

Example of 30 days of daily ingestion rate in gigabytes:

Day 1 = 50	Day 11 = 50	Day 21 = 30
Day 2 = 50	Day 12 = 90	Day 22 = 50
Day 3 = 50	Day 13 = 50	Day 23 = 50
Day 4 = 130	Day 14 = 50	Day 24 = 90
Day 5 = 50	Day 15 = 50	Day 25 = 50
Day 6 = 50	Day 16 = 50	Day 26 = 50
Day 7 = 50	Day 17 = 50	Day 27 = 10
Day 8 = 30	Day 18 = 90	Day 28 = 50
Day 9 = 50	Day 19 = 50	Day 29 = 50
Day 10 = 80	Day 20 = 50	Day 30 = 50

Calculation: The 30-day average is calculated by averaging the daily rate of ingestion over a 30-day rolling period, then converting that average to the applicable number of RVUs as shown in RVU conversion table VUE103A.

1. Add the daily ingestion rate for all 30 days. In this example, the total for 30 days is 1,650.
2. Divide the total by 30 to determine the average ingestion rate over 30 days. In this example, the average ingestion rate over 30 days is 55 gigabytes.
3. Convert the average 30 day ingestion rate of 55 gigabytes to RVUs using the VUE103A table. In this example, the applicable line is From 51 to 100 Resources, 44.9 RVUs plus 0.80 RVUs per Resource above 50. Therefore, the 55 gigabytes average is 44.9 RVUs plus 4 RVUs ($.80 \times 5$) = 48.9, then rounded up to 49.

The result is that the customer should purchase 49 RVUs of Operations Analytics - Log Analysis.

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License Information number

License number	Description
L-NHON-9TFLPV	IBM Operations Analytics - Predictive Insights V1.3.1
L-NHON-9RXF3C	IBM Operations Analytics - Log Analysis V1.3.1

The program's License Information will be available for review on the IBM Software License Agreement website

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

Limited warranty applies

Yes

Limited warranty

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

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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.

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Volume orders (IVO)

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System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

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<http://www-01.ibm.com/support/esa/>

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

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Prices

Passport Advantage

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For IBM representative: callserv@ca.ibm.com

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Reference: YE001

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