



IBM MessageSight V1.2 and MessageSight Virtual Edition V1.2 deliver mobile and machine-to-machine communication within and beyond the enterprise

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At a glance

IBM® MessageSight V1.2 offers the ability to connect enterprise systems to devices and sensors.

- Simply, by using policy-based administration to manage large numbers of clients
- Efficiently, by using lightweight standard MQTT, which is designed to connect to sensors
- Securely, by using advanced security protocols (SSL/TLS, OAuth 2.0, and LDAP)
- Reliably, with assured delivery, persistent messaging, and high availability

Take advantage of big data that comes from sensors and devices in new scenarios and couple this data with analytics to take informed, timely action.

The MessageSight physical appliance offers the best performance for messaging, connection, and throughput.

MessageSight Virtual Edition on VMware allows you to rapidly deploy to either a public or private datacenter and to reduce deployment time.

MessageSight Virtual Edition on Softlayer® allows you to deploy MessageSight to the IBM SoftLayer cloud-managed infrastructure. This makes it simple to create and manage images without having to maintain your datacenter and infrastructure.

Overview

MessageSight offers the ability for businesses to simply, efficiently, securely, and reliably connect their enterprise systems to devices and sensors.

- Makes it simple for businesses to connect their enterprise to the Internet of Things.
- Enables fast, and responsive, bi-directional mobile applications.

Both the Internet of Things and mobile present challenges to the business in terms of security, scale, and manageability, particularly when working with large numbers of sensors and devices. MessageSight acts as a gateway to provide these capabilities while processing large numbers of events in near-real time.

MessageSight allows an enterprise to unlock information contained within systems of record and take advantage of new opportunities, particularly in the fields of

connected car, smart meters, online gaming, assisted living, connected home, secure banking notifications, track and trace, and chat.

MessageSight works around a lightweight, bi-directional protocol, known as MQTT.

MessageSight V1.2 delivers the following enhancements:

- Production virtual appliances for VMware ESXi and SoftLayer Bare Metal Servers.
- Improved security. OAuth support, Lightweight Third-Party Authentication (LTPA) single sign on, and enhanced group management.
- Message management. Expiry, discard, and dynamic policies.
- Industry-standard MQTT v3.1.1 support with value-added features, such as shared subscriptions.
- Protocol plug-in technical preview, to extend the reach of MessageSight by creating a custom protocol handler.
- Improvements to monitoring: SNMP, new filters, queries, and statistics.
- Improved dashboard. Charting and statistics.
- Enhanced serviceability. Log file rotation, purging, and offloading remote syslog support.
- Supported additional languages in Chinese (Traditional and Simplified), Japanese, German, and French.

Key prerequisites

MessageSight Virtual Edition V1.2 requires a VMware or Softlayer environment.

Planned availability date

November 21, 2014

- Electronic delivery only
- Factory MessageSight appliance shipments with Version 1.2

Description

MessageSight gives businesses the ability to:

- Simplify connecting their enterprise to the Internet of Things.
- Build fast and responsive, bi-directional mobile applications.

Both the Internet of Things and mobile present challenges to the business in terms of security, scale, and manageability, particularly with large numbers of sensors and devices. MessageSight acts as a gateway to provide these capabilities while it processes large numbers of events in near-real time.

MessageSight allows an enterprise to unlock information that is contained within systems of record and take advantage of new opportunities, particularly in the fields of connected car, smart meters, online gaming, assisted living, connected home, secure banking notifications, track and trace, and chat.

MessageSight works around a lightweight, bi-directional protocol called MQTT.

MessageSight V1.2 delivers enhancements to build on its mobile messaging and Internet of Things capabilities:

Production Virtual Edition

Enables you to deploy MessageSight to virtual data centers.

- With VMware, you can rapidly deploy one or more images to provide device connectivity.
- Offers an image that is available for use with the SoftLayer cloud environment to help make it easy to create a public or private connectivity point for devices.

MessageSight Virtual Edition is available to support non-production and production environments.

In addition, the virtual edition is provided free of charge for development use and is available for download at

<https://developer.ibm.com/messaging/messagesight/>

MessageSight Virtual Edition offers an image, which is available for use with the SoftLayer cloud environment. This makes it easy to create a public or private connectivity point for devices.

Security

MessageSight supports OAuth 2.0, which enables for authorization to be securely delegated to a remote server.

OAuth Authorization Servers, which can be used with MessageSight, include the DataPower® appliances that contain an OAuth authorization server feature.

When connecting with WebSockets, MessageSight supports single signon by using LTPA tokens within cookies in the HTTP header.

The GroupID feature allows you to set messaging policies to apply to the group that the user belongs to rather than at the individual level. This makes it much simpler to manage groups of users and keeps them separated without creating large numbers of messaging policies.

Message Management - Expiry and Discard

MessageSight includes key capabilities to make it easier and simpler to manage messages. This becomes important when managing large numbers of clients.

The Message expiry allows the administrator to set the period of time for message validity. For example, a message destined for a car, to unlock the doors, could have a short message validity period, after which the message should not be delivered. If the car is out of range when the message is sent, late delivery could result in unexpected consequences.

Message Expiry allows the administrator to set an upper time limit to prevent old messages from queuing in the MessageSight system, eventually causing newer messages to be rejected. Message expiry is configured through messaging policies.

The message discard feature gives you greater control for handling new messages when a subscription hits the maximum number of messages configured for that subscription. When the subscription is full, you can choose either to reject new messages or discard old messages.

Industry-standard MQTT v3.1.1

MQTT is standardized under Oasis, and clients are made available in the Eclipse Paho community. This is a major milestone for MQTT, 15 years since its creation. It enables more interoperability and support for mobiles, devices, and sensors. For details, visit

<http://mqtt.org/>

MessageSight fully supports MQTT v3.1.1.

MQTT shared subscriptions

Allows you to share the messages coming into a single subscription between multiple clients. When using a subscription as an inbox representing work to be done, this function allows you to assign work to other clients to improve performance, and to ensure that messages continue to be processed, even if a client goes down.

Protocol plugins - technical preview

MessageSight includes a plug-in point to provide an extension to support additional protocols. This allows MessageSight to interact with legacy sensors and systems, which can be useful when you update a large deployment of sensors in a progressive manner.

This feature is a technical preview and IBM welcomes feedback on this feature. You may contact your IBM representative or submit a Request for Enhancement at

<http://www.ibm.com/developerworks/rfe/>

Monitoring improvements

MessageSight posts monitoring information through SNMP. Information about appliance status, memory usage, and client activity is published. This SNMP information can be read by standard monitoring tools, such as HP OpenView.

New filters, statistics, and predefined queries are added to help you monitor and manage queues and subscriptions to aid you in evaluating and improving the efficiency of messaging traffic.

Improved dashboard

The MessageSight dashboard contains new charts and statistics to make it easier to understand the behavior of your MessageSight.

Log file rotation, purging, and offloading

The log files for MessageSight are automatically rotated after the log file reaches a threshold. You can configure the log files in the following ways:

- Set the size at which a new log file is started and the number of files that are archived before the oldest file is deleted.
- Manually clear the archived log files and start a new log file rotation, by purging the log files.
- Configure automatic log transfers. Automatic log transfer copies log files to a remote system when the log file is archived on the MessageSight server.
- Configure a remote, syslog-compatible log server to which MessageSight log messages can be forwarded.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Program number

Program number	VRM	Program name
5725-F96	V1.2.0	IBM MessageSight
5725-S17	V1.2.0	IBM MessageSight Virtual Edition

Education support

IBM Global Services, IT Education Services, supports many IBM offerings.

For details, visit

<http://www.ibm.com/training/us>

For descriptions of courses for IT professionals and managers, visit

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

Questions? Contact 800-IBM-TEACH (426-8322).

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

Publications

The IBM MessageSight V1.2 product information will be available at the Knowledge Center on November 21, 2014. Visit

http://www-01.ibm.com/support/knowledgecenter/SSCGGQ_1.2.0/WelcomePage/ic-homepage.html

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 or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Technical information

Specified operating environment

Hardware requirements

Minimum requirements for MessageSight Virtual Edition V1.2:

- VMware is supported for development, non-production, and production use.
- SoftLayer Virtual Servers Cloudlayer® Computing Instance (CCI) is supported for development and non-production use only.
- SoftLayer Bare Metal is supported for non-production and production use.
- For development systems:
 - One network interface
 - 4 GB of memory
 - Two virtual CPUs
 - 25 GB, for first disk
 - 16 GB, for second disk (not required for SoftLayer CCI)
- For non-production and production systems:
 - Two 1GbE network interfaces
 - 16 GB of memory
 - Four virtual CPUs
 - 25 GB, for first disk
 - 64 GB, for second disk

MessageSight V1.2 is a physical appliance.

Software requirements

MessageSight Virtual Edition V1.2 on VMware requires one of the following:

- For development systems
 - VMware Player 5, or higher
 - VMware Workstation 8, or higher
 - Oracle VirtualBox V4.3, or higher
 - VMware ESXi hypervisor V5.5, or higher
- For production and non-production systems
 - VMware ESXi hypervisor V5.5, or higher

MessageSight Virtual Edition V1.2 on Softlayer requires a public or private CCI or a Bare Metal instance.

MessageSight V1.2 appliance requires one of the following browsers on a remote machine for configuration:

On RHEL Linux™ 6 or SLES 11: Firefox 24 or 31 ESR

On Windows™ 7 or 8, one of the following:

- Mozilla Firefox 24 or 31 ESR
- Chrome 37, or later
- Microsoft™ Internet Explorer 9

On Mac OS X, one of the following:

- Mozilla Firefox 24 or 31 ESR
- Chrome 37, or later
- Safari 7

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

Packaging

This offering is delivered through the Internet. There is no physical 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.

Direct customer support

For technical support or assistance, contact your IBM representative or visit

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

Ordering information

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

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

For more information about IBM Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

<http://www.ibm.com/partnerworld/wps/bplocator/>

Product group:

Product Identifier	Description	(PID)
IBM MessageSight		5725-F96
IBM MessageSight	Virtual Edition	5725-S17

Product category: Appliance

Passport Advantage

MessageSight appliance (5725-F96)

For ordering information for MessageSight, refer to Software Announcement [213-116](#), dated April 23, 2013.

MessageSight Virtual Edition (5725-S17)

Program name/Description	Part number
MessageSight Virtual Edition	
IBM MessageSight Virtual Ed per Process Value Unit Lic + SW S&S 12 Mo	D1AQALL
IBM MessageSight Virtual Ed per Process Value Unit Annual SW S&S Rnw	E0KFJLL
099 MessageSight Virtual Ed per Process Value Unit SW S&S Reinstate 12 Mo	D1AQBLL
IBM MessageSight Virtual Ed Non Production per PVU Lic + SW S&S 12 Mo	D1AQKLL
IBM MessageSight Virtual Ed Non Production per PVU Annual SW S&S Rnw	E0KFPLL
IBM MessageSight Virtual Ed Non Production per PVU SW S&S Reinstate 12 Mo	D1AQLLL

Charge metric

Program name	PID number	Charge metric
IBM MessageSight	5725-F96	Per appliance install
IBM MessageSight Virtual Edition	5725-S17	Per PVU

Appliance Install

Appliance Install is a unit of measure by which the program can be licensed. An Appliance Install is an installed copy of the program that is included on a single unit of supporting hardware. Licensee must obtain an entitlement for each Appliance Install of the program.

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores. The PVU table can be found at

http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (refer to the web page below). If using full capacity licensing, licensee must obtain PVU entitlements sufficient to cover all activated processor cores* in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using virtualization capacity licensing, licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_specific_virtualization_technologies.html

* An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes

- Some programs may require licenses for the program **and** what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores 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 program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

Terms and conditions

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

This product is only available via Passport Advantage.

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 number

- L-AVIL-9NEPB5 MessageSight V1.2 (physical appliance)
- L-AVIL-9LSJYK MessageSight Virtual Edition V1.2 (VMWare and SoftLayer)

The program's License Information is 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.

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 Subscription and Support (also referred to as 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 Subscription and Support (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

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.

Other terms

Volume orders (IVO)

No

IBM International Passport Advantage Agreement

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

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

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

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

IBM Operational Support Services - SoftwareXcel

No

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 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.

Prices

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>

Passport Advantage

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

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For more financing information, visit

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For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on November 9, 2014)

The Publications and Software requirements sections are revised.