



IBM MessageSight delivers massive scale communication within and beyond the enterprise

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At a glance

IBM® MessageSight delivers:

- High-performance, reliable, and scalable messaging - Designed specifically for machine-to-machine (M2M) and Internet of Things scenarios, by supporting massive communities for concurrently connected end points.
- Security - Comes DMZ-ready with no user level operating system, encrypted flash, and storage media. Will only run signed and encrypted firmware images provided by IBM.
- Simple deployment - It can be up and running in under 30 minutes by using a role and task-driven user interface.
- Extension of existing enterprise messaging infrastructures securely across the Internet into the edge of network use cases.
- Developer-friendly design with, support for native mobile applications that include Android and iOS.

Overview

By processing large volumes of events in near real time, IBM MessageSight delivers the performance, value, and simplicity organizations need to accommodate the ever growing multitude of mobile devices and sensors. IBM MessageSight extends messaging networks with extreme transaction rates, massive scale, and predictable low latency. It delivers messaging for the edge of the enterprise to reach out to the expanding Internet of Things, the dramatic scaling in the number of concurrent devices that can be connected with timely information.

These capabilities allow today's organizations to be more engaged to support new systems of interaction with clients, partners, and employees by unlocking information in systems of record to enable business to be conducted anywhere.

Unlike messaging appliances that merely consolidate traditional messaging services onto a hardware form factor, the IBM MessageSight is specifically engineered to deliver massive scale communications within and beyond the enterprise. It is designed with specific optimization to accelerate reliable messaging delivery with persistence qualities minimizing latency, and provide high and predictable throughput.

In real time, IBM MessageSight supports new levels of performance and scale across a wide variety of use cases that include massive sensor networks, intelligent automotive applications, and large-scale mobile banking. By scaling huge numbers

of concurrently connected devices, the appliance enables large volumes of events to be streamed into analytic engines for processing big data.

Key prerequisites

Refer to the [Hardware and software requirements](#) section.

Planned availability date

May 24, 2013

Availability of programs with encryption algorithm in France is subject to French government approval.

Description

The Internet is no longer just about web browsing. It is a mesh of devices such as mobile phones, sensors, and machines. The ubiquity of TCP/IP over 3 G, 4 G, and WiFi networks makes it possible for multitudes of devices to send and receive data across the globe. Consumers and application owners expect near, real-time interactions between these devices and applications. There is a paradigm shift from the classic, request-response-driven nature of the web to an event-driven, interactive experience.

Building these interactive applications requires a bi-directional, communications infrastructure that scales to support the growing number of connected devices. Emerging publish and subscribe messaging technologies are required to build these rich and interactive applications.

IBM MessageSight is a purpose-built messaging platform that delivers the performance, scalability, and value organizations require to meet the demands of the hyper-connected world. Suitable for DMZ deployments at the edge of the network and designed to handle massive numbers of connected devices and process high volumes of messages with consistent latency, IBM MessageSight allows organizations to expand their applications beyond the data center to provide a truly interactive experience.

IBM MessageSight allows organizations to implement a variety of use cases:

- Connected vehicles
- Event-driven sensor networks
- Interactive mobile applications including notifications
- WebSocket HTML5-based web applications
- Near, real-time data collection for Big Data analytics
- Scalable alerting and notification systems
- High-scale asynchronous publish and subscribe for service-oriented architectures

Key product capabilities and highlights

Appliance form-factor

- A design that is 2U hardened and rack-optimized
- Suitability for DMZ deployments (no user accessible operating system, and signed and encrypted firmware)
- Simplified management via web or command-line-based interfaces
- Multiple network interfaces (eight 1 Gbe ports and four 40 Gbe ports)

Asynchronous messaging, that supports

- Both publish and subscribe (topic-based) and point-to-point (queue-based) messaging domains
- Both persistent and nonpersistent qualities of service
- MQ Telemetry Transport (MQTT) v3.1 specification
- MQTT over HTML5 WebSockets
- Java™ Messaging Service (JMS) 1.1

Performance

- Delivers high throughput for persistent and non-persistent messages.
- Supports vast numbers of connected devices.

Developer-friendly APIs and libraries

- MQTT clients and libraries for a variety of platforms (C and Java-based APIs)
- Libraries for Google Android and Apple iOS
- JMS client libraries
- JavaScript™ API for HTML5-based applications
- PhoneGap MQTT plug-ins with JavaScript API for use with IBM Worklight®, Apache Cordova, and Adobe™ PhoneGap

Reliability

- Assured delivery of messages
- Support for MQTT qualities of service (QoS) 0, 1, and 2 - best effort, at least once and exactly once
- Local transaction support
- Support for high availability configurations

Security

- Hardened appliance form-factor suitable for DMZ deployments
- Authentication via local user store or external Lightweight Directory Access Protocol (LDAP) servers
- Secure Sockets Layer (SSL) and Transport Level Security (TLS) support SSL v3 and TLS 1.0, 1.1 and 1.2 Federal Information Processing Standard (FIPS) 140-2 Level 1-certified cryptographic module
- Fine-grained messaging authorization policies which restrict access based on combinations of:
 - User or group
 - Client identifier
 - Protocol
 - Network interface
 - Listening address and/or port
 - Client IP address or range
 - Destination (topic and queue) name

Integration

- Extends and connects to WebSphere® MQ infrastructures.
- Supports mapping appliance destinations to and from WebSphere MQ destinations.
- Supports connectivity to WebSphere Message Broker via JMS and or MQTT nodes.
- Integrates with Java environments.
- Integrates with rich HTML5-based web applications.

- Allows development of interactive mobile messaging applications with IBM Worklight Studio

Simplified deployment

- Allows complete configuration and operation within 30 minutes.
- Delivers easy-to-use, web-based, and command-line interfaces.
- Requires minimal configuration options.

This announcement satisfies the commitments stated in the preview announcement entitled, Preview: Next Generation of Messaging Appliances. For information, refer to Software Announcement [ZP12-0584](#), dated October 16, 2012.

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	V1.0.0	IBM MessageSight
Description	Machine type-model	Part number
IBM MessageSight	6188-SM1	D0YRFL1

Education support

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

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 Infocenter is available at product availability. Visit

<https://pic.dhe.ibm.com/infocenter/ism/v1r0m0/index.jsp>

Specified operating environment

Hardware and software requirements

IBM MessageSight

Physical specifications

Weight 30 kg
Height 86.5 mm
Width 482 mm
Depth 746 mm

Weight 66.14 lb
Height 3.41 in
Width 18.98 in
Depth 29.37 in

Electrical

IBM MessageSight has two 750-watt power supplies

- 100 - 127 (nominal) V ac; 50 Hz or 60 Hz; 8.9 A
- 200 - 240 (nominal) V ac; 50 Hz or 60 Hz; 4.5 A
 - Minimum configuration: 0.14 kVA
 - Maximum configuration: 0.90 kVA

Btu output

- Minimum configuration: 419.68 Btu/hr (ac 123 watts)
- Maximum configuration: 3480.24 Btu/hr (ac 1020 watts)

Noise level

- 6.6 bels (operating)
- 6.4 bels (idle)

Equipment approvals and safety

IBM MessageSight conforms to the following standards:

- EN55022:2006/A1:2007 Class A, EN55024:1998/A1:2001/A2:2003, EN61000-3-2:2006, and EN61000-3-3:1995/A1:2001/A2:2005
- CISPR 22, Class A
- Russia/GOST ME01, IEC-60950-1-2005, GOST R 51318.22-99, GOST R 51318.24-99, GOST R 51317.3.2-2006, GOST R 51317.3.3-2008
- IEC 60950-1 (CB Certificate and CB Test Report)

Operating environment

IBM MessageSight is designed for:

Power On

- Temperature
 - 10 to 35 C (50 to 95 F) for Altitude: 0 to 914 m (3,000 ft)
 - 10 to 28 C (50 to 82 degrees F) at 914 to 3,047 m (3,000 to 10,000 ft)

- Humidity
 - Range: 20% to 80%
 - Maximum dew point: 21 degrees C (69.8 degrees F)
 - Maximum rate of change: 5 C/hr (41 F/hr)

Power Off

- Temperature: 5 to 45 degrees C (41 to 113 degrees F)
- Relative humidity: 5% to 80%
- Maximum dew point: 27 C (80.6 F)

Limitations

For operating system limitations, refer to the [Hardware and software requirements](#) section.

ServeRAID M5100 Battery - One year Note: The ServeRAID M5100 Battery has a one year warranty period effective on its "Date of Installation". All other product warranty terms for the machine remain unchanged.

Solid-state drives

Solid-state memory cells have an intrinsic, finite number of write cycles that each cell can incur. As a result, each solid-state drive has a maximum amount of writes to which it can be subjected, documented as TBW (Total Bytes Written). IBM is not responsible for replacement of hardware that has reached the maximum guaranteed number of write cycles. This limit may be revealed as the SSD drive failing to communicate to system generated commands or becoming incapable of being written to. In general, it is important to distinguish enterprise value drives from enterprise drives.

Enterprise drives have much higher write endurance and as a result, can withstand a greater number of writes over the lifetime of the device compared to enterprise value level drives. SSD write endurance is an important factor to consider because unlike spinning disk media, NAND flash accepts a finite number of program/erase cycles.

SSD write endurance is typically measured by the number of program/erase cycles, or P/E cycles, each cell incurs over its lifetime and per drive, listed as Total Bytes Written (TBW) in the drive specification. This statistic can be used to give an estimate of the drive's remaining life left based on the workload to which the drive will be subjected to. The TBW value assigned to a solid-state drive is the total bytes of written data (based on number of P/E cycles) a drive can be guaranteed to complete. Reaching this limit does not cause the drive to immediately fail; it simply denotes the maximum number of writes that can be guaranteed.

A solid-state drive will not fail upon reaching the specified TBW. At some point based on manufacturing variance margin, after surpassing the TBW value, the drive will reach the end-of-life point, at which the drive will go into a read-only mode.

As a result of the technology limitations, care must be taken to use SSDs in environments that will not exceed the TBW of the drive prior to the required life expectancy of the application.

IBM Official Specifications for IBM MessageSight hardware

Contact your local marketing representative for a copy of the IBM Official Published Specifications for IBM MessageSight System hardware.

Planning information

Power supply requirements

IBM MessageSight has two 750-watt, redundant power supplies, providing N+N redundancy.

Service parts can be ordered from the IBM National Parts Center. Ordering procedures and terms are described in the *Service Support Guide*.

Global Technology Services®

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

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

Product category: Appliance

For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit

<http://www-306.ibm.com/software/support/pa.html>

Passport Advantage

IBM MessageSight appliance

Program name/Description	Part number
IBM MessageSight Appliance Install	
Appliance Install, maintenance + S&S 12 Mo	D0YRFL
Appliance maintenance + S&S renewal 12 Mo	E0H2GL
Appliance maintenance + S&S reinstatement 12 Mo	D0YRGL

Business Critical Service upgrade

IBM MessageSight	
Business Critical Service upgrade per Appliance Install	
Initial upgrade 12 Months	D0YRHLL
Subsequent upgrade 12 Months	E0H2HLL

Business Critical Service upgrade is available in the following countries: Austria, Denmark, Finland, Germany, Ireland, Norway, Sweden, Switzerland, UK, Belgium, Cyprus, France, Greece, Luxembourg, Israel, Italy, Netherlands, Portugal, Spain,

Bulgaria, Croatia, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia, Turkey, Egypt, Kenya, Morocco, Pakistan, South Africa, and Tunisia.

Note: Country-specific line cords are included with each order based on the ship-to address.

Charge metric

Program name	PID number	Charge metric
IBM MessageSight	5725-F96	Per appliance install

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.

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 Attachment for Appliance Service to Passport Advantage.

<http://www.ibm.com/software/lotus/passportadvantage/agreementsandforms.html>

Consult the *IBM Appliance Support Handbook* for further details on Appliance Warranty Service upgrade options. Visit

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

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

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

IBM MessageSight V1.0 - L-AVIL-93U7JG

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 SWG Appliance Support Handbook*, found at

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

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program technical support

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. Appliance Subscription and Support (Appliance 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.

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

Usage restriction

Yes. Adding, removing, or replacing hardware components of IBM MessageSight System must be performed by IBM.

Appliance Maintenance, Software Subscription and Support applies

Yes. For additional information on appliance services, consult the Appliance Services Attachment to Passport Advantage at

<http://www.ibm.com/software/lotus/passportadvantage/agreementsandforms.html>

Software Subscription and Support applies

Yes

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Education allowance does not apply.

Special education prices are available for qualified customers through Passport Advantage.

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

For all local charges, contact your IBM representative.

Passport Advantage

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

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

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

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

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

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For more financing information, visit

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

Announcement countries

IBM MessageSight is available in the following countries:

Angola, Austria, Denmark, Ethiopia, Finland, Germany, Ireland, Norway, Sweden, Switzerland, UK, Belgium, Cyprus, France, French Polynesia, Greece, Israel, Italy, Netherlands, Portugal, Spain, Luxembourg, Guadeloupe, Reunion, French Guyana, Bulgaria, Croatia, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Turkey, Egypt, Ghana, Kenya, Morocco, Nigeria, Pakistan, South Africa, and Tunisia

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<http://www.ibm.com/legal/us/en/>

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/>

Corrections

(Corrected on March 11, 2014)

The Announcement countries and Ordering information sections are revised.