

# Confinity Low Latency Messaging V3 delivers high-volume, low-latency reliable messaging to help address rapidly increasing data volumes within the financial markets

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## Overview

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Confinity Solutions GmbH is a third-party company with which IBM<sup>(R)</sup> has an agreement to resell Confinity Low Latency Messaging software.

Confinity Low Latency Messaging (LLM) is messaging transport software that is optimized for the high-volume, low-latency requirements of financial market firms and other industries (telecommunications, manufacturing, aerospace, and defense) with similar requirements. In these environments, applications require extreme low-latency (sub-millisecond) and high message volumes (ranging from many thousands to millions of messages per second), with varying delivery styles and message qualities of service.

Confinity LLM can be used for high-speed delivery of market data, order management data, reference data, and event data in or between front-office, middle-office, and back-office environments. Confinity LLM can be integrated with IBM MQ for back-office applications that require high levels of assured delivery.

Confinity LLM can be a key element of low-latency solutions for financial firms or within other industries that require reliable, high-speed data delivery, such as telecommunications, manufacturing, aerospace, and defense.

Confinity Low Latency Messaging can help organizations that require:

- High throughput and ultra-low latency messaging
- High availability without compromising on latency even with commodity hardware
- Assured delivery and message replay
- Ability to choose efficient delivery options including true point-to-point unicast and one-to-many multicast
- Freedom to choose and combine native support for InfiniBand and 10 Gigabit Ethernet (GbE) networks
- Message traffic rate and congestion control
- Support for simultaneous use of User Datagram Protocol (UDP) and Transmission Control Protocol (TCP)
- Shared memory for fast inter-process communication
- Simplified topic provisioning and subscription management
- Flexible, fine-grained message filtering

- Robust application and network monitoring statistics for internal and external latency

Confinity LLM V3.0 will offer the following:

- Two offerings that depend on your use case:
  - Confinity LLM that now includes the message store component as standard
  - Confinity LLM Core that is targeted at higher throughput, lower latency use cases and does not include:
    - Reliable Multicast Messaging (RMM)
    - Reliable Unicast Messaging (RUM)
    - The message store component
- Support for more recent versions of Red Hat 6.8 and 7, and Windows™ 8 and 10 operating systems
- New functions that include timestamps and configurable latency

Confinity LLM V3.0 is a follow-on product to MQ Low Latency Messaging V2.6. IBM is withdrawing MQ Low Latency Messaging from market. Customers of that product are encouraged to investigate Confinity LLM as an alternative solution. Refer to Software Announcement [ZP17-0004](#), dated July 11, 2017.

For more information about Confinity LLM V3.0, refer to the [Confinity Solutions](#) website<sup>1</sup>.

IBM Elite Support for Confinity Low Latency Messaging provides IBM remote technical support for the Confinity Low Latency Messaging program. Details can be found in the [Software Support Handbook](#).

<sup>1</sup> Link to a non-IBM website. Any references to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The content available at those non-IBM websites are not part of any materials relating to the IBM products described herein. Your use of any non-IBM website is at your own risk.

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## Key prerequisites

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Confinity LLM requires selected levels of the Linux™ and Microsoft™ Windows operating systems.

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## Planned availability date

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July 11, 2017

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## Reference information

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For information about Confinity Low Latency Messaging, refer to the [Confinity Solutions](#) website.

For information about the software withdrawal and support discontinuance of MQ Low Latency Messaging, refer to Software Announcement [ZP17-0004](#), dated July 11, 2017.

For information about MQ Low Latency Messaging, refer to Software Announcement [ZP11-0098](#), dated April 5, 2011.

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## Program number

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<b>Program number</b>	<b>VRM</b>	<b>Program name</b>
5737-D79	300	Confinity Low Latency Messaging
5737-E35	300	IBM Elite Support for Confinity Low Latency Messaging

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## Offering Information

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Product information is available on the [IBM Offering Information](#) website.

More information is also available on the [Passport Advantage<sup>\(R\)</sup>](#) and [Passport Advantage Express<sup>\(R\)</sup>](#) website.

## Publications

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For information about documentation for Confinity Low Latency Messaging, refer to the [Confinity Solutions](#) website.

## Services

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### Global Technology Services

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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.

## Technical information

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### Specified operating environment

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#### **Hardware requirements**

Minimum requirements are listed. The actual requirements for your system may be greater, depending on the complexity of your specific environment, latency, throughput, and data requirements.

Additional hardware that may be required based on capacity requirements:

- CPUs (processors or multicore processors)
- Memory
- Servers (for added capacity or redundancy)
- Disks

Gigabit network adapters and routers are required for high-speed transport. Native InfiniBand, on Linux only, and IP over InfiniBand are also supported.

Processor requirements

- Processor
  - AMD or Intel<sup>TM</sup> ® x86 architecture 32-bit or 64-bit
  - One processor, with a minimum speed of 2.0 GHz, dual processor, or dual core is recommended
- Minimum 300 MB free disk space required for installation
- One or more of the following network adapters:
  - For Ethernet, 1 or 10 GbE adapters

- For InfiniBand, host channel adapters supported by OFED-1.3, or later
- For the optional Low Latency Message Store feature, enough disk space to hold the messages that are to be stored, and a disk system fast enough to support the rate of messages to be stored

## **Software requirements**

### **Operating system**

For Reliable Multicast Messaging and Reliable Unicast Messaging over Ethernet, Reliable and Consistent Message Streaming (RCMS), and IPv6, one of the following operating system platforms:

- Red Hat
  - Red Hat Enterprise Linux 6.6 (x86 or x86-64)
  - Red Hat Enterprise Linux 6.7 (x86, x86-64)
  - Red Hat Enterprise Linux 6.8 (x86 or x86-64)
  - Red Hat Enterprise Linux 7.0 (x86 or x86-64)
  - Red Hat Enterprise Linux 7.1 (x86 or x86-64)
  - Red Hat Enterprise Linux 7.2 (x86 or x86-64)
  - Red Hat Enterprise MRG 1.1 (x86 or x86-64)
- SUSE
  - SUSE Enterprise Linux 11.1 or later (x86, x86-64)
  - SUSE Enterprise Linux 12.0 (x86, x86-64)
  - SUSE Enterprise Linux 12.1 (x86, x86-64)
  - SUSE Linux Enterprise Real Time Extension 11 SP3 (x86 or x86-64)
  - SUSE Linux Enterprise Real Time Extension 12 SP1 (x86 or x86-64)
- Microsoft Windows
  - Microsoft Windows 7 (x86 or x64)
  - Microsoft Windows 8 (x86 or x64)
  - Microsoft Windows 10 (x86 or x64)
  - Microsoft Windows Server 2012 (x86 or x64)
  - Microsoft Windows Server 2012 R2 (x86 or x64)
  - Microsoft Windows Server 2016 (x86 or x64)

### **Runtime requirements**

- C and C++ applications on the Windows platform: Microsoft Visual C++ 2013 or 2015 Redistributable Package
- Java™ applications
  - Linux on x86 platform: IBM JRE 7.0 or Oracle Java SE 7, SE 8, or SE 9
  - Windows platform:
    - IBM JRE 7.0 or Oracle Java SE 7, SE 8, or SE 9
    - Microsoft Visual C++ 2013 or 2015 Redistributable Package
- .NET applications on the Windows platform: Microsoft Visual C++ 2013 or 2015 Redistributable Package, with a prerequisite of Microsoft.Net Framework 4.0

### **InfiniBand runtime requirements**

- OpenFabrics Enterprise Distribution (OFED) V1.3, or later

### **Development system software requirements**

- C and C++ applications

- Windows platform Microsoft Visual Studio 2013 or 2015 (32-bit or 64-bit), on one of the following:
  - Microsoft Windows 7
  - Microsoft Windows 8
  - Microsoft Windows 9
  - Windows Server 2012
  - Windows Server 2016
- Linux platform (one of the following):
  - GCC 4.8.x (32- or 64-bit) on Red Hat Enterprise Linux Server
  - GCC 4.8.x (32- or 64-bit) on SUSE Linux Enterprise Server
- Java applications
  - Linux platform: IBM SDK for Java 7.0 or Oracle JDK 7 or 8
  - Windows platform: IBM SDK for Java 7.0 or Oracle JDK 7 or 8
- .NET applications on the Windows platform: Microsoft Visual C++ 2013 or 2015 Redistributable Package, with a prerequisite of Microsoft .Net Framework 4.0

### ***IBM Electronic Support***

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement. Read about the Electronic Support portfolio of tools on the [IBM Electronic Support](#) website.

You can also access the [IBM Support Portal](#) page and the online [Service requests and PMRs](#) tool for more support.

### **Planning information**

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#### ***Packaging***

This offering is delivered through the internet. There is no physical media.

For packaging information for Confinity Low Latency Messaging, refer to the [Confinity Solutions](#) website.

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### **Ordering information**

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For ordering information, consult your IBM representative or authorized IBM Business Partner, or go to the [Passport Advantage](#) website.

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

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

More information can be found on the [IBM Channel Value Rewards](#) website.

To locate IBM Business Partners for Channel Value Rewards in your geography for a specific Channel Value Rewards portfolio, go to the [Find a Business Partner](#) page.

Product group: WebSphere<sup>(R)</sup>

Product: Confinity Low Latency Messaging (5737-D79)

Product: IBM Elite Support for Confinity Low Latency Messaging (5737-E35)

Product category: Application Integration Middleware Other

This offering is supported by Confinity Solutions GmbH. All software license terms are provided by Confinity Solutions GmbH. This is a third-party reseller offering. For more information, refer to the [Confinity Solutions](#) website.

### Passport Advantage

Program name/Description	Part number
Confinity Low Latency Messaging Install 3rd Party Offer	D1UNZLL
Confinity Low Latency Messaging Non Production Install 3rd Party Offer	D1UP0LL
Confinity Low Latency Messaging Core Install 3rd Party Offer	D1UP1LL
Confinity Low Latency Messaging Core Non Production Install 3rd Party Offer	D1UP2LL
IBM Elite Support for Confinity Low Latency Messaging Install, Unlimited Contacts SW Support 12 Months	D1UP3LL
IBM Elite Support for Confinity Low Latency Messaging Core Install, Unlimited Contacts SW Support 12 Months	D1UP4LL
IBM Elite Support for Confinity Low Latency Messaging Non Production Install, Unlimited Contacts SW Support 12 Months	D1UP5LL
IBM Elite Support for Confinity Low Latency Messaging Core Non Production Install, Unlimited Contacts SW Support 12 Months	D1UP6LL

### Charge metric

Program name	PID number	Charge metric
Confinity Low Latency Messaging	5737-D79	Install
IBM Elite Support for Confinity Low Latency Messaging	5737-E35	Install

### Install

Install is a unit of measure by which the program can be licensed. An install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

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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.

This product is only available through Passport Advantage.

### Licensing

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Supplier's license terms apply.

### Limited warranty

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Not warranted by IBM. Warranty, if any, provided by supplier.

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### **Volume orders**

Not applicable

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### **Educational allowance**

No. Special education prices are available through Passport Advantage.

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## **Statement of good security practices**

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IT system security involves protecting systems and information through intrusion 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 regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

**Important:** IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

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## **IBM Electronic Services**

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Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to organizations that have IBM Systems. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support, all at no additional cost to you.

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, go to the [IBM Electronic Support](#) website.

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 organizations that are Electronic Service Agent tool-enabled to track system inventory and find pertinent fixes.

### **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 human intervention is not required to report errors.

**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 is designed to securely transmit either through the internet (HTTPS or VPN) or modem to provide organizations a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into an organization's system.

For additional information, go to the [IBM Electronic Service Agent](#) website.

**More accurate reporting:** Because system information and error logs are automatically uploaded to the IBM Support Center in conjunction with the service request, you 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 IBMid entered during activation, you can view system and support information in the *My Systems and Premium Search* sections of the [IBM Electronic Support](#) page.

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 your IBMid. 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, you are able to see search results that apply specifically to your systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or go to the [IBM Electronic Support](#) website.

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## Prices

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### **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 IBMid and password are required to access the [IBM Passport Advantage](#) website.

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 Channel Value Rewards. Additional information is also available on the [Passport Advantage and Passport Advantage Express](#) website.

### **IBM Global Financing**

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## Announcement countries

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## Corrections

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### **(Corrected on July 25, 2017)**

Overview and Ordering information sections are revised.