

## IBM IMS Connect for z/OS, Version 2.2

---

### Highlights

---

- **Supports high-performance communications between one or more TCP/IP or local/390 clients, and one or more IBM IMS systems**
- **Provides commands to manage that environment and assist with workload balancing**
- **Reduces design/coding effort for client applications**
- **Provides easier e-business access to IMS applications and operations**

### Meeting the need for enterprise application access

IBM IMS™ Connect for z/OS®, Version 2, IBM's premier access product for IBM IMS, provides advanced security and transactional integrity in TCP/IP and local/390 access to IMS from the Internet.

Enhancements include:

- *J2EE Connector Architecture XA two-phase commit support for distributed and z/OS environments to expand transactional integrity.*
- *Secure Sockets Layer (SSL), Passticket and trusted-user support to strengthen security.*
- *IMS Control Center access to ease IMS operations.*
- *Internet Protocol Version 6 (IPV6) network protocol support for scalability and simplification.*
- *PING support for determining IMS Connect availability.*
- *Auto reconnect to IMS.*
- *Message time-out granularity.*
- *User message exit limitation relief.*
- *Command enhancements for management ease.*
- *Improved performance and availability reporting.*
- *Cancel timer support for better usability.*
- *IMS Connector for Java™, providing WebSphere® resource adapter support and adding*
  - *Message Format Services (MFS) Web services support to enable IMS customers to publish existing MFS-based IMS applications on the Internet as Web services*
  - *IBM WebSphere Application Server for z/OS, Version 5 support*
  - *Container-managed and component-managed IMS sign-on support*
  - *Run-as thread identity support for z/OS environments for enhanced security*
  - *Commit Mode 0 support to broaden application support*
  - *Execution time-out*
  - *Commit Mode 0/Persistent socket for improved performance*
  - *Socket timeout for enhanced usability*
  - *Retry for improved availability.*

## Providing integrated application development

### Delivering Linux connectivity

IMS Connect also provides access to IMS from the Linux for S/390® operating systems. IMS Connect, running under OS/390® or z/OS, can be used to access IMS applications and data from applications running under Linux for S/390 or any other S/390 or zSeries® system in the enterprise.

### Delivering dynamic Web content

IMS Connect, used with the IBM WebSphere Studio Application Developer Integration Edition development environment and IMS Connector for Java, can significantly ease the development of e-business solutions that access IMS transactions.

Java programs developed with these products can be deployed in WebSphere Application Server, allowing you to use Web applications, J2EE applications or Web services to quickly transform static Web sites into sources of dynamic Web content.

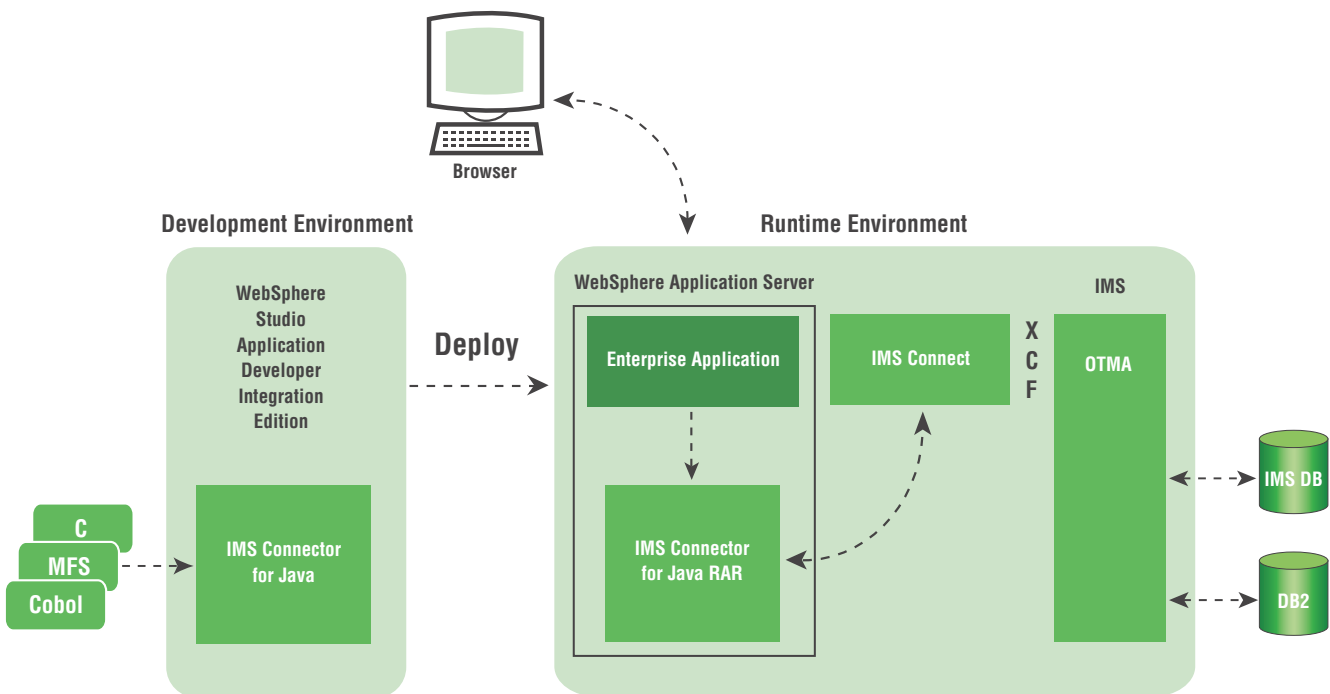
### Utilizing IMS Connector for Java

IMS Connector for Java provides a resource adapter for deployment in WebSphere Application Server, Version 5 when running Java applications.

Resource adapter support is provided through the addition of IBM IMS Connector for Java runtime support. J2EE is the industry-wide standard

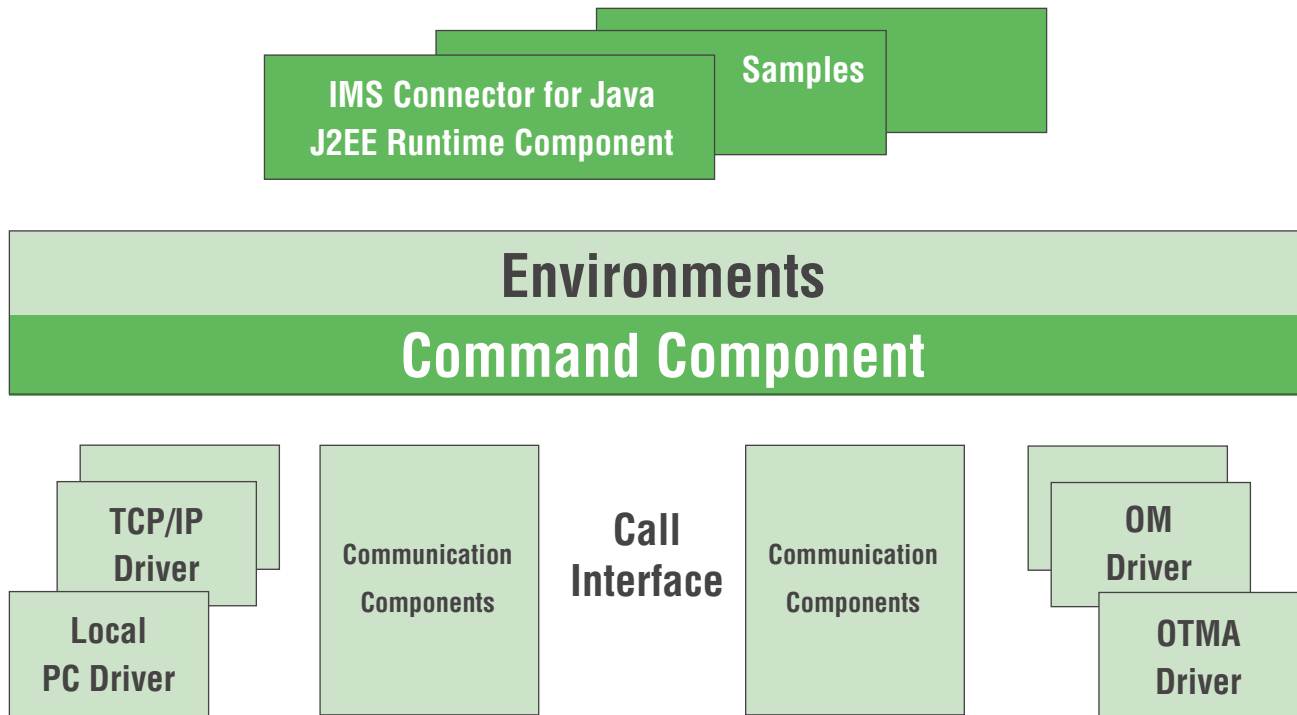
evolving from the IBM Common Connector Framework. IMS Connector for Java runtime support provides the runtime environment for Java applications developed using WebSphere Studio Application Developer Integration Edition/IMS Connector for Java J2EE development support.

WebSphere Studio Application Developer Integration Edition can be used to generate J2EE applications that are deployed in WebSphere Application Server. The IMS Connector support is designed to be used with the J2EE Connector Architecture Specification Version 1.0.



IMS Connect provides information integration in application development and connectivity.

## Providing connectivity options



IMS Connect provides a connectivity base for growth.

IMS Connector for Java provides:

- *Java class libraries that are based on the J2EE Connector Architecture, interfacing IMS Connect to access IMS transactions.*
- *Samples and helper classes to aid in composing applications. Applications can be built easily and rapidly using WebSphere Studio Application Developer Integration Edition.*

### Leveraging the system architecture

IMS Connect, running in an OS/390 or z/OS environment, allows TCP/IP clients or local/390 clients to send messages to IMS. IMS Connect interfaces to IMS using the MVS Cross

Coupling Facility (XCF) and the IMS Open Transaction Manager Access (OTMA) interface. These interfaces allow for cross-Sysplex communication between IMS Connect and IMS.

### Enabling distributed operations to access IMS

IBM also provides, through IMS Connect, an IMS Control Center capability, a graphical user interface to the IMS, Version 8 Operations Manager, greatly easing IMS operations. The IMS Control Center capability, integrated into IBM DB2® Universal Database™, Version 8, allows a single user interface to control both IMS and DB2.

The DB2 administration tools include a Control Center for navigating IMS Sysplex systems; wizards for creating the IMS, Version 8 Operations Manager commands; a results window for sorting and filtering single-system image command results and a Command Center for typing and executing both new and old operations commands.

### Providing a foundation for the future

IMS Connect is part of the overall restructuring of IMS for the 21st century and is architected as the base for future IMS connectivity. IMS Connect is designed so that the drivers are interchangeable. Alternatives for the TCP/IP front end (e.g. the local/390 front end) or the IMS OTMA facility back end (e.g., the new IMS, Version 8 Operations Manager) are already provided.

These alternatives enable IMS to exploit new, additional and enhanced protocols and interfaces. In addition, IMS Connector for Java, providing access from Java applications as well as samples for other language access, is included with IMS Connect.

### Offering the utmost in performance

Recent performance tests of IMS Connect conducted at IBM's Silicon Valley Laboratory in San Jose, California, reveal IMS Connect to be an efficient product for accessing IMS transactions over the Internet.

Utilizing several of the new key performance improvements, such as persistent sockets, UNIX® system services latch elimination and OTMA latch contention reduction, IMS reached a steady throughput rate of 5,955 transactions per second. Both milestones were achieved running through single IMS and IMS Connect address spaces using transactions that access IMS databases with CPU usage at 52.3 percent.

For speed and reliability in accessing your IMS data over the Web, make IMS Connect your tool of choice.

### Software prerequisites

IMS Connect base function requires IMS, Version 7. IMS, Version 8 is required to take advantage of the enhancements.

### For more information

Please contact your IBM marketing representative, an IBM Business Partner or call 1-800 IBM CALL within the US.

Also visit our Web site at

**[ibm.com/software/data/db2imstools](http://ibm.com/software/data/db2imstools)**

When ordering IBM IMS Connect, please specify program number 5655-K52.



© Copyright IBM Corporation 2004

IBM Corporation  
Silicon Valley Laboratory  
555 Bailey Avenue  
San Jose, CA 95141

Printed in the United States of America  
05-04  
All Rights Reserved

DB2, DB2 Universal Database, the e-business logo, @server, IBM, the IBM logo, IMS, OS/390, S/390, WebSphere, z/OS and zSeries are trademarks of International Business Machines Corporation in the United States, other countries or both.

Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc., in the United States, other countries or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product and service names may be trademarks or service marks of others.

References in this publication to IBM products or services do not imply that IBM intends to make them available in all countries in which IBM operates.

♻️ Printed in the United States on recycled paper containing 10% recovered post-consumer fiber.

