



IBM WebSphere eXtended Transaction Runtime V1.0 delivers a modern, tightly integrated managed environment for hosting COBOL business applications within IBM WebSphere Application Server

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At a glance

IBM® WebSphere® eXtended Transaction Runtime (WXTR) V1.0 delivers:

- Tightly integrated and managed environment to host Java™ Enterprise Edition (Java EE) and modern COBOL applications
- Data management services to handle data stored in the DB2® database from the modern COBOL applications
- Unified system administration with IBM WebSphere Application Server
- Integration with IBM Rational® application development tools for developing and debugging mixed language applications

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For more information contact the Americas Call Centers at
800-IBM-CALL (426-2255).

Reference: YE001

Overview

IBM WebSphere eXtended Transaction Runtime (WXTR) V1.0 is the latest addition to the IBM Transaction Processing family, delivering a tightly integrated environment for hosting modern COBOL applications using CICS® transactional services within IBM WebSphere Application Server. This new offering provides a path forward for customers with COBOL business applications on distributed platforms to extend their applications into a Java Enterprise Edition (Java EE) environment and realize the benefits of a tightly integrated managed environment.

WXTR, along with IBM Rational Application Development tools, delivers the capability to create and host COBOL business applications using CICS transactional services and extend them into a Java EE environment. It provides native runtime connectivity between Java EE and COBOL applications, significantly easing integration in an enterprise environment. Its tight integration with the system management capability of WebSphere Application Server enables easy deployment, administration, and optimization of services, significantly increasing administration efficiency for managing mixed language transactional applications, unlike other competitor environments.

Many customers have invested much time and effort in the development of business logic in CICS style COBOL applications and are looking to unlock the value of those applications and extend them using Java EE. By establishing WXTR as a core component of an enterprise IT architecture, alongside WebSphere Application Server, your organization can have a highly responsive, tightly integrated composite application serving infrastructure for modern COBOL and Java workloads. This lets you effectively optimize and modernize your COBOL assets while capitalizing on enterprise-wide skills to consolidate IT infrastructure around WebSphere Application Server as the core hosting server in a distributed environment.

WXTR provides an increased deployment choice for customers wishing to progressively modernize their COBOL while standardizing infrastructure around WebSphere Application Server. This approach complements IBM's premier offering for modern application hosting on z/OS® through products such as CICS Transaction Server (CICS TS) V4 and WebSphere Application Server for z/OS, with WXTR providing a subset of capabilities to those found on System z®.

Key prerequisites

- AIX® V6.1 TL2 or AIX V7.1 TL0 SP1
- IBM WebSphere Application Server V7.0.0.13
- IBM WebSphere Application Server V7 Feature Pack for Service Component Architecture 1.0.1.9
- IBM DB2 V9.7
- IBM COBOL for AIX V4.1

Planned availability date

June 17, 2011: Electronic availability

July 19, 2011: Media availability

Description

IBM WebSphere eXtended Transaction Runtime (WXTR) V1.0 delivers the capability to create and host business applications written in modern COBOL and extend into a Java Enterprise Edition (EE) environment.

Key functions

Tightly integrated managed environment to host Java EE and modern COBOL applications

WXTR provides an execution environment to host modern COBOL business applications within the WebSphere Application Server supporting interoperability between Java EE and COBOL workloads. It enables developers to focus on business logic rather than on how to interoperate between Java EE and COBOL assets, failure detection, recovery, and access to data.

WXTR provides the standard interfaces to invoke COBOL applications from Java. Java applications can connect through standard connection interfaces Java connector architecture (JCA) or service component architecture (SCA) and invoke COBOL applications. SCA bindings can be used by SCA component clients. By leveraging the CICS/IMS Data Binding feature in IBM Rational Application Developer, Java EE applications can exchange mixed type data with COBOL applications in WXTR.

WXTR propagates COBOL Runtime System (RTS) and application errors as Java exceptions back to Java EE applications for further processing.

Data management services

WXTR provides support for CICS data management facilities such as files and queues stored in a DB2 database. WXTR runtime allows VSAM style access to the data stored in DB2.

Unified system administration with IBM WebSphere Application Server

WXTR provides a common administration facility for managing both COBOL and Java EE assets within the WebSphere Application Server administration console, reducing the learning curve for administration personnel and allowing them to easily and efficiently deploy, administer, and optimize services. Administrators can view and modify the WXTR service properties through the WXTR service panel in the WebSphere Application Server administration console. WXTR runtime services can also be configured using WebSphere administration scripts. It also supports non-root users to perform preconfigured set of administrative tasks without necessitating root user privileges.

Modern application development support using IBM Rational Development tools

IBM Rational Developer for Power® Systems, along with WXTR, provides a modern application development experience across Java EE and COBOL applications. It enables developers to perform operations such as develop, deploy, and debug applications within a single integrated development environment (IDE), improving productivity. Application developers can step in to a COBOL program from a Java EE application and inspect the COBOL program. Similarly, data exchange between COBOL and Java EE applications can be achieved using the CICS/IMS Java Data Binding feature provided by IBM Rational Application Developer tools.

Section 508 of the U.S. Rehabilitation Act

WebSphere eXtended Transaction Runtime is capable as of June 17, 2011, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested on the following website

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

Product positioning

Many customers running non-IBM transaction processing products have invested much time and effort in the development of business logic in COBOL based applications and are looking to unlock the value of those applications and extend them using Java EE as they adopt enterprise modernization initiatives. It is often prohibitively expensive to recreate existing COBOL assets in Java and hence there is a significant risk to the business and to the enterprise in modernizing using this approach. This approach also poses significant challenges on managing existing COBOL skill sets within the organization. By establishing WXTR as a core component of your enterprise IT architecture, alongside WebSphere Application Server, you can effectively retain existing COBOL assets and skill sets while simultaneously adopting Java EE platforms for newer workloads. The tight integration between WXTR and WebSphere Application Server simplifies integration infrastructure requirements and enhances development and administration efficiency.

Statement of direction

IBM declares the following statement of general direction:

- In the future, IBM intends to deliver support of IBM Migration Assistant for Oracle Tuxedo for WXTR.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice.

Program number

Program number	VRM	Program name
5725-C89	1.0.0	IBM WebSphere extended Transaction Runtime

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

No publications are shipped with this product.

The IBM Publications Center

<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. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Technical information

Specified operating environment

Hardware requirements

IBM AIX users

Any IBM System p® hardware capable of running IBM AIX V6.1 or V7.1.

Required disk space on all supported platforms

Description	AIX
WebSphere eXtended Transaction Runtime bundle	300 MB
Maximum space required	400 MB

Software requirements

WXTR consists of 32-bit processes. All libraries linked with WXTR (including those running in a 64-bit kernel) must be 32 bit.

Operating systems

- IBM AIX V6.1 TL2, AIX V7.1 TL0 SP1

Supported software for IBM AIX

- IBM Rational Installation Manager V1.4.2
- IBM WebSphere Application Server V7.0.0.13
- IBM WebSphere Application Server V7 Feature Pack for Service Component Architecture 1.0.1.9
- Application Development Tools
 - IBM Rational Developer for Power Systems Software V8.0
 - IBM Rational Application Developer for WebSphere Software V8.0
- Databases
 - IBM DB2 V9.7
- Languages
 - IBM COBOL for AIX V4.1.0.0 plus Interim Fix 110114 plus Interim Fix 110114a

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

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 (also referred to as Software Maintenance) 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.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of

Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

Customer responsibilities

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Packaging

The media pack for **WebSphere eXtended Transaction Runtime (WXTR)** contains:

- QuickStart CD-ROM (contains Quick Start Guide and Publications)
- WebSphere eXtended Transaction Runtime V1.0 for AIX CD-ROM

Security, auditability, and control

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

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

Product information

Licensed function title	Product group	Product category
IBM WebSphere extended Transaction Runtime	IBM Transaction Server	Transaction Server
Program name	PID number	Charge unit description
IBM WebSphere extended Transaction Runtime	5725-C89	Per Processor Value Unit (PVU)

Charge metrics definitions

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

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

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.

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 webpage 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.
- Express and workgroup programs may be licensed with maximum use terms. In that case, the following applies. The maximum authorized use terms and conditions for PVU licensed IBM express and middleware programs can be found in the IBM Express and Middleware Licensing Guide.

Passport Advantage program licenses

WebSphere eXtended Transaction Runtime

Part description	Part number
IBM WebSphere eXtended Transaction Runtime	
WS eXtended Trans Runtime Per PVU SW S&S Reinstated 12 Month	D0IDILL
WS eXtended Trans Runtime Per Processor Value Unit (PVU) Annual SW S&S Rnw1	E0BN0LL
WS eXtended Trans Runtime Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D0IDHLL

Passport Advantage supply

Program name/description	Part number
WS extended Trans Runtime V1.0.0 IBM WebSphere extended Transaction Runtime V1.0 for AIX English Media Pack	BA111NA

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

WS eXtended Trans Runtime V1.0.0

Entitled maintenance offerings description	Media packs description	Part number
IBM WebSphere extended Transaction Runtime Processor Value Unit	IBM WebSphere extended Transaction Runtime V1.0 for AIX English Media Pack	BA111NA

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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.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

License Information form number

Program name	Program number	Form number
WebSphere extended Transaction Runtime	5725-C89	L-AFOS-8DUGRH

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

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Money-back guarantee

For clarification, note that 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 for programs acquired under the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage Web site at

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

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

Usage restriction

Yes

For additional information, refer to the License Information Document that is available on the IBM Software License Agreement website

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

International Passport Agreement

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Other terms

System i Software Maintenance applies

No

Educational allowance available

Not applicable.

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The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support.

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Prices

Passport Advantage

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