



IBM WebSphere Transformation Extender for z/OS V8.2 designed to deliver business agility through IT agility

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At a glance

With IBM WebSphere Transformation Extender V8.2, you get:

- Enhanced Design Studio: New Eclipse tooling for type trees and maps, and delivers a common, standards-based user experience across the WebSphere portfolio
- New industry pack for Association for Cooperative Operations Research and Development (ACORD) that accelerates delivery of data transformation and exchange solutions meeting the insurance industry standard
- New industry pack for National Clearing House Association (NACHA) that improves governance by validating ACH compliance of data transformation solutions for financial services in the NACHA
- Enhanced industry packs for SEPA, SWIFTNet Funds HL7
- Multiple enhancements to functionality including support for complementary WebSphere products with new tooling, new parser, and extensive runtime enhancements
- New edition: WebSphere Transformation Extender for Integration Servers provides enhanced installation and deployment to Enterprise Service Bus (ESB) and Business Process Management (BPM) servers
- WebSphere Adapters included in enterprise packs
- New 64-bit operating system tolerance support for selected platforms and availability on Linux for System z
- Ability to purchase sub-capacity ordering with this release

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL Reference: LE001

Overview

IBM WebSphere® Transformation Extender (WebSphere TX) is a universal data transformation and validation engine for Smart SOA. It is designed to deliver business agility through IT agility by tackling one of the most significant challenges of integrating enterprise business systems. WebSphere TX delivers transformation and content validation for large volumes of complex formatted and large multipart documents using a codeless, graphical approach to development.

New business services can be delivered quicker to market, with business driven enhancements turned around in shorter cycles. WebSphere TX enables you to minimize the impact integration imposes

on an application. Developers no longer need to modify application interfaces to deal with new message structures and file formats, or write and test new preprocessing and postprocessing programs to validate the syntax and semantics of the content received and sent by the application.

Business is better served where electronic documents exchanged between organizations can be validated before sending or receiving, eliminating costly errors, and remedial action to resend. Validation checking is important to many for compliance with both regulatory and industry body requirements for inter-business transactions.

The WebSphere TX family delivers editions for both batch and event driven messaging, extending an Enterprise Service Bus (ESB) or Business Process Management (BPM) solution, and for embedding with custom applications written in C, COBOL, or written for Java™ or .Net. On the IBM System z™ platform, blue-chip clients deploy WebSphere TX in z/OS® Batch, CICS®, IMS™, and DB2® environments seeking high performance, and the reliability of transaction control.

Enhancements:

- WebSphere Transformation Extender V8.2 adds WebSphere Transformation Extender for Integration Servers, an extender for ESB and BPM servers.
- WebSphere Transformation Extender Design Studio now adopts the Eclipse standard with new type designer and map designer tools.
- Industry packs are available for insurance and financial services message standards.
- Connectivity is enhanced with the adoption of WebSphere Adapters. WebSphere TX is now available on Linux™ for System z, and selected 64-bit platforms in tolerance mode.

Key prerequisites

For details, refer to the Software requirements and Hardware requirements sections.

Planned availability date

December 14, 2007

Description

Product structure

IBM WebSphere TX offerings are designed to deliver data transformation and validation wherever required in your IT infrastructure.

Base editions provide the core engine, associated infrastructure and components necessary for production data transformation environments. All implementations require one or more base editions, depending on the enterprise architecture and where WebSphere Transformation Extender will be implemented. Technology adapters for integrating with other technologies in the enterprise, such as WebSphere MQ, are included in the base products. A subset of adapters is supported on z/OS and includes WebSphere MQ, file, and FTP. The adapters not included are those with royalty bearing encryption/security protocols, and those delivered in optional Packs.

Development tooling includes packages for developing transformations and interfacing WebSphere TX with a custom programming environment. All WebSphere TX implementations require at least one order of WebSphere Transformation Extender Design Studio to develop, test, and tune transformations and metadata.

Optional WebSphere Transformation Extender components deliver significant value in the development and implementation of WebSphere TX. Industry and enterprise connectivity packs accelerate time to value by populating the Design Studio with prebuilt assets. Secure adapters, SNMP, and Launcher enhancements extend the base edition functionality. Trading Manager is an application for managing EDI transactions with Business Partners.

Base editions

Summary of new technical features in V8.2 base editions and tooling.

General

- Java 1.5 support.
- IPv6 support for all adapter components.
- JExit function to call out to Java applications that will create or reuse a JVM.
- Text sizes can be specified for both bytes and characters.

XML

- Support for XSD Union type
- Support for xsi: type
- Restart and reject logic now available for XML type trees
- XML schema validation now switchable between on and off on a "per card" basis
- Location of XML schema now a card setting specifying Web address or file path

Language

- Support for bi-directional code locales.
- Substitution characters now allowed. If a character does not exist in a target (ICU) code page, the target code page's default character is used.

Connectivity

- WebSphere Adapters for e-mail and FTP added to based editions.
- E-mail Adapter includes support for multiple headers and attachments.
- FTP adapter allows remote files to be renamed once read.
- WebSphere Adapters for SAP, PeopleSoft, Siebel added to packs.
- SAP adapter adds support for the Query Interface for SAP Software (QISS) and an inbound RFC server.
- PeopleSoft adapter adds listener interface for PeopleSoft Component Interfaces.
- New importer functionality for Enterprise MetaData Discovery for Adapters.

IBM WebSphere Transformation Extender for Application Programming is used to deploy the transformation engine in custom applications and application servers, and use the APIs provided to execute a transformation map. APIs include C, Java, EJB, .Net, and COBOL. This package is used when you want to call directly from your application into the transformation engine. This product has been renamed in V8.2 to clarify its usage. In V8.1, it was simply called WebSphere Transformation Extender. This edition is used to provide extended transformation with IBM WebSphere Application Server.

IBM WebSphere Transformation Extender with Command Server allows the transformation engine to be called directly from a command line, shell script, or timer. WebSphere Transformation Extender Command Server is a powerful command-line-driven environment to control the execution of a transformation. Use this package to extend an existing application and infrastructure with minimal intrusion. System z users of MVS™ Batch, CICS, and IMS environments on System z use this edition. For System z users, this edition includes the components in the Application Programming edition.

WebSphere Transformation Extender with Launcher includes the WebSphere Transformation Extender Launcher and the Command Server. The Launcher activates transformations based on triggers. Triggers can be a file creation, a message arriving on a messaging system (such as IBM WebSphere MQ), a DBMS trigger, a timer, and many other options as well as combinations of triggers. The Launcher offers online run-time environment that synchronizes and controls complicated data transformations, while maintaining and optimizing the execution environment for the transformations. For System z, this edition runs under the UNIX® System Services environment.

WebSphere Transformation Extender for Message Broker for z/OS V8.1 has been merged into the new edition WebSphere Transformation Extender for Integration Servers for z/OS V8.2. It continues to extend the breadth of data transformation capabilities of WebSphere Message Broker, a universal Enterprise Service Bus (ESB) Service Bus from IBM. Complex Electronic

Data Interchange (EDI) structures can be more easily processed without writing a hundred lines of script. The Extender provides access to industry packs to accelerate integration in EDI, financial services, healthcare, and insurance. The Extender can handle variable format structures and batched transaction documents with ease, and without scripting. You can solve critical business problems in real time with support for industry standards, regulatory compliance, and connectivity requirements. The Extender functionality remains at V8.1.

New in V8.2: IBM WebSphere Transformation Extender for Integration Servers

WebSphere Transformation Extender for Integration Servers is the latest edition to the Transformation Extender family. It offers the transformation engine packaged ready to install with IBM WebSphere Process Server or WebSphere Enterprise Service Bus. This edition takes advantage of the Service Component Architecture bindings added in V6.1 of these products. Specifically, WebSphere Transformation Extender can be used as a dedicated mediation engine. Enhancements for WebSphere Enterprise Service Bus and WebSphere Process Server V6.1 include:

- WebSphere Transformation Extender data bindings for JMS, WebSphere MQ, HTTP, EIS import, and EIS export
- Maps can convert between external formats and business objects
- Eclipse-based wizard simplifies map design; runs in WebSphere Integration Developer

WebSphere Transformation Extender for Message Broker V8.1 has been merged with WebSphere Transformation Extender for Integration Servers for V8.2.

Development Tooling

WebSphere Transformation Extender Design Studio is an integrated development environment where transformations and metadata are developed, imported, tested, and performance tuned. WebSphere TX Design Studio is a required, separately orderable product. After the transformations are developed, tested, and tuned in Design Studio, the transformation is generated in a platform-specific form. It can then be installed with the transformation engine for system test and production execution.

New in V8.2: Eclipse tooling for type trees and maps. The Eclipse workbench delivers a common, standards based, user experience across the WebSphere portfolio, and is supported by many independent software vendors today. The Type Designer and Map Designer tools now support the Eclipse standard look and feel. Importer utilities become Eclipse importers, and additional importers are included to support adapter connectivity with enterprise applications. The Database Interface Designer as well as the Integrated Flow Designer and management tools used with WebSphere Transformation Extender with Launcher have not been migrated to Eclipse in this release.

Native XML support is now available with tooling support for XML Schemas. These no longer need to be imported and converted to type trees as they now appear as type trees in map designer. Existing type trees still work with the new Eclipse look and feel tools.

WebSphere Transformation Extender SDK delivers the development environment for all of the APIs such as C, Java, EJB, and COBOL to integrate custom programming environments directly to WebSphere Transformation Extender. In addition, you can develop custom adapters for WebSphere Transformation Extender using this SDK and deploy them in any base edition. SDK does not include the Design Studio. SDK is available for writing client programs that connect directly to the stand-alone transformation engine. It adds the capability of the application programming edition to the other base editions.

WebSphere Transformation Extender industry packs

WebSphere Transformation Extender industry packs provide out-of-the-box capabilities to integrate a range of industry-standard data formats with your enterprise infrastructure. Industry packs enable developers to accelerate the delivery of transformation solutions by providing predefined type tree templates, conversion maps, and in selected packs, provide validation maps and tools to remove risk from projects that require conformance to mandatory and advisory guidelines required by the regulatory body or industry service provider.

WebSphere Transformation Extender industry packs used in conjunction with WebSphere Transformation Extender, a universal data transformation engine, provide organizations with an infrastructure that can:

- Enable compliance with government and industry mandates
- Control administrative costs

- Streamline business processes
- Facilitate accuracy and timeliness of information
- Reuse existing business systems
- Adapt to new technologies as they emerge
- Integrate multiple systems and standards
- Automate cross-organizational exchanges

Note: WebSphere Transformation Extender Design Studio is capable of importing nearly any industry format when available to industry communities such as XML schema.

With V8.2 of WebSphere Transformation Extender, the industry packs have been combined into industry groups for the purposes of simplifying the announcement of new releases of related packs, independently of the base edition announcements. Pack version numbers are now aligned to the group versions.

IBM WebSphere Transformation Extender Packs for Financial Services V4.2.2

National Automated Clearing House Association (NACHA)

WebSphere Transformation Extender Pack for NACHA is a new pack delivering templates for 2007 Automated Clearing House (ACH) compliant message exchange.

Like many financial formats ACH is in an envelope structure consisting of a file header/trailer, batch header/trailer, and detailed transaction records. This pack delivers extensive compliance using the validation rules and content restrictions included in the type tree definitions. Maps are included for conversion of Cash Concentration and Dispersion (CCD) and Corporate Trading Exchange (CTX) ACH formats.

The most common uses of ACH are online bill payment, mortgage and loan repayment, and direct deposit of payroll. ACH payments are an efficient and cost-reducing alternative to paper checks and credit cards.

SEPA

WebSphere Transformation Extender Pack for Single Euro Payments Area (SEPA) is a recently announced pack that helps banks and financial institutions meet their compliance obligations to the European Union initiative to have a pan-European electronic payments infrastructure. It includes templates for SEPA credit transfers and direct debits, mapping between SEPA and SWIFT message type103, as well as validation for European Payment Council's SEPA implementation guidelines.

Additions with V8.2:

- Converter examples for mapping MT101, 102, 102+, 103+ SWIFT message types to SEPA credit transfer messages
- Validation updates implemented from the European Payment Council updated guidelines of June 2007
- eBA® STEP2 support to the bundle/unbundled example included in the SEPA Pack. STEP2 is the implementation of SWIFTNet FileAct and SWIFTStandards XML for Automated Clearing Houses used by the European Banking Association (EBA) pan-European retail payment clearing house.

SWIFT

WebSphere Transformation Extender Pack for SWIFTNet Funds provides support for SWIFT Funds October 2007 message sets, consolidated at MX V4.0, and updated transformations between SWIFTNet Funds and SWIFT FIN SRG 2007.

WebSphere Transformation Extender Pack for SWIFTNet FIN is unchanged in this release.

IBM WebSphere Transformation Extender Packs for Insurance V1.0.0

Association for Cooperative Operations Research and Development (ACORD)

New with V8.2, WebSphere Transformation Extender Pack for the ACORD provides support for ACORD XML V1 standards for Property and Casualty/Surety and ACORD XML V2 Life Insurance. Type tree templates are included for non-vendor AL3 and a sample conversion map for AL3 to ACORD V1.

ACORD XML Schema are available to ACORD members only. Members are required to install the ACORD XML Schema as a prerequisite to using this pack.

IBM WebSphere Transformation Extender Packs for Healthcare V4.3.0

HIPAA

WebSphere Transformation Extender Pack for HIPAA EDI includes ready-to-execute template definitions for the complete ASC X12N standard for HIPAA including HIPAA 4010 addendum, as well as CMS (formerly HCFA) formats for legacy NSF, UB-92 Claims and Coordination of Benefits, and 4010 flat file formats for Professional and Institutional Claims and Coordination of Benefits. The pack includes compliance checking and handling of claims attachments.

HIPAA EDI addresses the administrative simplification aspects of HIPAA legislation — the standardization of electronic patient health, administrative, and financial data. HIPAA regulations affect payers, health plans, clearinghouses, and those providers who conduct financial and administrative transactions electronically. This pack remains unchanged in this release.

Health Level 7 (HL7)

WebSphere Transformation Extender Pack for HL7 includes HL7 V2.1, V2.2, V2.3, and V2.5 type trees. HL7 V3 XML formats can be easily imported into the Design Studio Type Designer using the XML Importer built into the tool.

HL7 is an ANSI-accredited standards organization operating in the healthcare arena. HL7's domain is clinical data. The HL7 produces standards for the exchange, management, and integration of data, intended to promote interoperability between healthcare information systems. This pack has HL7 V2.4 support added in V8.2.

National Council for Prescription Drugs (NCPDP)

IBM WebSphere Transformation Extender Pack for NCPDP includes template definitions for all of the finalized HIPAA NCPDP Telecommunications V5.1 transaction sets and Batch V1.1 format. The pack also supports NCPDP V3.2 transaction sets and Batch V1.0 format. Sample maps are included to create reports from requests and replies.

NCPDP is a HIPAA-designated standards maintenance organization for finalized HIPAA transactions. NCPDP standards are used in the retail pharmacy sector. This pack is unchanged in V8.2.

WebSphere Transformation Extender Packs for EDI

X12

WebSphere Transformation Extender Pack for X12 includes prebuilt definitions for the ASC X12 transaction sets. ASC X12 represents multiple business domains including finance, government, health care, insurance, and transportation. It supports X12 5030 standard. New in September 2007, the X12 definitions in the pack were updated to support version 5040 as described by the Data InterChange Standards Association (DISA). The majority of changes are in transportation and shipping, and includes a new transaction "Customs and Border Protection".

EDIFACT

WebSphere Transformation Extender Pack for EDIFACT includes prebuilt definitions for the United Nations Electronic Data Interchange for Administration, Commerce, and Transport (EDIFACT) standards. It supports D.05a and D.05b. In September 2007, the EDIFACT definitions in the pack were updated to support EDIFACT D.06a and D.06b versions.

EANCOM

WebSphere Transformation Extender Pack for EANCOM provides prebuilt definitions for EDI solutions requiring standard exchange formats. The EAN identification system defines unique identification codes for products and locations often used for barcodes as well. Designed for the retail sector, EANCOM is used in healthcare, transport, electronics, and publishing. This pack is unchanged in V8.2.

Odette

WebSphere Transformation Extender Pack for Odette provides a template to help improve quality and shorten design time of EDI solutions for the automotive industry. Odette International is an organization formed by the automotive industry to set the standards for e-business communications, engineering data exchange, and logistics management. This pack is unchanged in V8.2.

Transformation Extender Pack for Trading Data Communications Standard (TRADACOMS)

WebSphere TRADACOMS provides prebuilt definitions of TRADACOMS formats. TRADACOMS is an EDI standard used in the retail sector for general merchandise. This pack is unchanged in V8.2.

WebSphere Transformation Extender Enterprise Packs

WebSphere Transformation Extender Enterprise Packs provide out-of-the-box capabilities to accelerate the connectivity of WebSphere TX with key ISV business applications such as:

- WebSphere Transformation Extender Pack for PeopleSoft
- WebSphere Transformation Extender Pack for SAP R/3
- WebSphere Transformation Extender Pack for SAP XI
- WebSphere Transformation Extender Pack for Siebel

Each Enterprise Pack provides the capability for WebSphere TX to leverage one or more interfaces, provided by the vendor, for external applications to communicate and exchange business information. In addition to detailed documentation of the interfaces and the steps needed to integrate the application, adapters and plug-in "assist" applications are provided for both synchronous and asynchronous connectivity to the WebSphere TX transformation engine. No manual coding is required. Where the ISV application supports and publishes well defined data exchange formats, (for example, SAP), importers are included which help discover and replicate the application-specific metadata ensuring a higher degree of compliance with the syntax, semantics and structure. The packs enable developers, testers, and the production staff to accomplish more through deeper integration with their enterprise environments.

New in V8.2:

- WebSphere Adapters for SAP, PeopleSoft, Siebel added to packs
- SAP R/3 WebSphere adapter adds support for the Query Interface for SAP Software (QISS)
- WTX supported as an SAP XI Adapter Module extension, to support map invocation before entering the SAP XI configuration
- PeopleSoft adapter adds listener interface for PeopleSoft Component Interfaces
- New importer functionality for Enterprise MetaData Discovery for Adapters

WebSphere Transformation Extender: Miscellaneous options

New in V8.2: WebSphere Transformation Extender Pack for SNMP Collection enables integration with network management applications. The Simple Network Management Protocol (SNMP) Collection includes the SNMP Agent, which enables monitoring and management by an SNMP manager and an SNMP Adapter, letting you send alerts to SNMP manager products from WebSphere Transformation Extender Maps.

WebSphere Transformation Extender Trading Manager enables you to manage and control the business-to-business (B2B) integration of partner relationships and message flow. WebSphere Transformation Extender Trading Manager users can audit, control, monitor, and view the entire B2B integration environment across the extended enterprise with secure data exchange fully integrated with back-end systems. This product remains at V8.1.

Trading Manager consists of two components: Partner Manager (a graphical client for administering partner and trade link information) and Message Manager (a run-time system that manages integration of inbound and outbound partner messages). WebSphere Transformation Extender Trading Manager is an application that requires the WebSphere Transformation Extender with Launcher base edition, and is enhanced for use with an EDI or HIPPA industry pack.

WebSphere Transformation Extender Trading Manager can be integrated with IBM WebSphere Partner Gateway to provide an end-to-end B2B integration environment and expand the reach of WebSphere Transformation Extender into B2B and EDI Gateway customer self-service, security, and AS1, AS2, and AS3 futures.

WebSphere Transformation Extender Security Collection offers additional adapters to encrypt and decrypt data according to many popular standards. Adapters included are S/MIME, SSL, and OpenPGP. WebSphere Transformation Extender Security Collection works with any base edition.

WebSphere Transformation Extender Launcher Agent includes an inbound HTTP agent for WebSphere Transformation Extender. This enables WebSphere Transformation Extender with

Launcher to listen and respond to HTTP requests. WebSphere Transformation Extender Launcher Agent requires the WebSphere Transformation Extender with Launcher base edition.

WebSphere Transformation Extender Pack for Web Services is withdrawn as a product as of V8.2. All base editions now include the Web Services Definition Language (WSDL) importer components, previously provided as an option, to deliver a transformation as a Web Service, and the Simple Object Access Protocol (SOAP) adapter previously provided as an option. The base editions also include SOAP and HTTP adapters.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on the product accessibility compliance can be requested via IBM's Web site

http://www-3.ibm.com/able/product_accessibility/index.html

Section 508 of the U.S. Rehabilitation Act

WebSphere Transformation Extender for z/OS V8.2 is capable as of December 14, 2007, when used in accordance with associated IBM 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) can be requested at

http://www-3.ibm.com/able/product_accessibility/index.html

Value Unit-based pricing

Value Unit pricing for eligible IBM System z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing, has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool Web site

<http://ibm.com/zseries/swprice/vuctool>

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the System z IPLA program you selected, refer to the Terms and conditions section.

Product positioning

WebSphere Transformation Extender for z/OS expands the WebSphere Transformation Extender functions and capabilities on the z/OS platform, and works in conjunction with the other WebSphere Transformation Extender products that run on other platforms.

Reference information

For more information about the WebSphere Transformation Extender family of products, refer to Software Announcement [207-343](#), dated December 11, 2007.

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

BP Attachment for Announcement Letter 207-346

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=207-346>

Trademarks

System z, IMS, and MVS are trademarks of International Business Machines Corporation in the United States or other countries or both.

WebSphere, CICS, DB2, z/OS, zSeries, eBA, and eServer are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Java is a trademark of Sun Microsystems, Inc.

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

Linux is a trademark of Linus Torvalds in the United States, other countries or both.

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

Education support

A number of educational classroom offerings are available for the WebSphere® Transformation Extender family. For a list of course titles and course codes, refer to Software Announcement [207-343](#), dated December 11, 2007.

IBM Global Services, IT Education Services, provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM IT Education Services Web site

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

Refer to the IBM IT Education Services Web site for information on course locations and availability dates.

Call IBM Global Services, IT Education Services at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering Information

Product information is available via the Offering Information Web site

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

Publications

No printed publications are shipped with this program. Publications for WebSphere Transformation Extender for z/OS® are included as an online library and shipped on the Windows® platform product CD-ROM in PDF format.

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 free of charge.

Technical information

Specified operating environment

Hardware requirements: WebSphere Transformation Extender for z/OS V8.2 requires a computer system capable of running IBM z/OS V1.8, or later.

Software requirements

- z/OS V1.8, or later
- XML Toolkit z/OS V1.9
- One of the four WebSphere Transformation Extender for z/OS V8.2 options:
 - WebSphere Transformation Extender for Application Programming V8.2

Depending on your specific requirements and environment, other programs and products may also be required in addition to the z/OS operating system. Examples of other software requirements might include:

- CICS® Transaction Server V2.3, or later
- CICS Transaction Server V3.1, or later — XPLINK Support
- DB2® V7, or later
- IMS™ V8, or later
- WebSphere MQ V6.0, or later
- WebSphere Transformation Extender for z/OS V8.2 with Command Server
 - DB2 V7, or later
 - WebSphere MQ V6.0, or later
- WebSphere Transformation Extender for z/OS V8.2 with Launcher
 - Java™ SDK V1.5, or later
 - DB2 V7, or later
 - WebSphere MQ V6.0, or later
- WebSphere Transformation Extender for z/OS V8.2 for Integration Servers
 - WebSphere Message Broker V6, or later
 - WebSphere Enterprise Service Bus V6.1, or later
 - WebSphere Process Server V6.1, or later
 - DB2 V8, or later
 - WebSphere MQ V6.0, or later

For more technical information about WebSphere Transformation Extender on other platforms, WebSphere Transformation Extender tooling, and WebSphere Transformation Extender optional components (including industry packs), refer to Software Announcement [206-162](#), dated July 25,

2006.

Limitations: For information about any terms, conditions, or restrictions that might be applicable, refer to the Terms and conditions section of this announcement, or to the License Information Document that is available on the IBM Software License Agreement Web site

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

Planning information

Packaging: Each of the following WebSphere Transformation Extender for z/OS V8.2 options are delivered on 3480 tape:

- WebSphere Transformation Extender for Application Programming
- WebSphere Transformation Extender with Command Server
- WebSphere Transformation Extender with Launcher
- WebSphere Transformation Extender for Integration Servers

The package for each option contains:

- International Program License Agreement
- License Information document
- Program directory
- Product software on 3480 uncompressed tape
- Product documentation on CD
- Design Studio on CD
- Extended Launcher on CD (included **only** with WebSphere Transformation Extender for z/OS with Launcher)

These WebSphere Transformation Extender for z/OS V8.2 options are also available via electronic download.

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 unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

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

Ordering information

Charge metric

Program name	PID number	Charge metric
WebSphere Transformation Extender for z/OS V8.2	5655- R95	Value Units
S&S for WebSphere Transformation Extender for z/OS	5655- R96	Value Units

The program in this announcement has Value Unit-Based pricing.

Program number	Program name	Value Unit exhibit
5655-R95	WebSphere Transformation Extender for z/OS V8.2	VUE007

For each System z™ IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

Value Unit exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	2

Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

	MSUs	*	Value Units/MSU	=	Value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier D	1,185	*	.20	=	237.00
Total	1,500				343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Web site at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

The products in this announcement have one charge unit — Value Units.

Translation from MSUs to Value Units example using VUE001

	MSUs	Value Units/MSU
Base	1- 3	5. 25
Ti er A	4- 45	. 83
Ti er B	46- 175	. 35
Ti er C	176- 315	. 26
Ti er D	316+	. 20

Note: For the actual translation from MSUs to Value Units for this product, refer to the table that follows.

Ordering example

The total number of Value Units is calculated according to the following example.

If the customer has installed 1,000 MSUs, the applicable Value Units would be:

Translation from MSUs to Value Units (VUE001)

	MSUs	*	Value Units/MSU	=	Value Units
Base	3	*	5. 25	=	15. 75
Ti er A	42	*	. 83	=	34. 86
Ti er B	130	*	. 35	=	45. 50
Ti er C	140	*	. 26	=	36. 40
Ti er D	685	*	. 20	=	137. 00
Total	1, 000				270

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Value Units for non-MSU-based S/390® processors using VUE001:

MP3000 model s

H30	=	21. 00 Value Units per machine
H50	=	22. 00 Value Units per machine
H70	=	26. 00 Value Units per machine
ESL model s	=	9. 00 Value Units per machine

Basic license: On/Off Capacity on Demand (CoD)

WebSphere Transformation Extender for z/OS V8.2 is eligible for On/Off CoD) with a Temporary Use Charge (TUC) calculated based on MSUs-per day usage.

Program Name: WebSphere Transformation Extender for z/OS V8.2

Program PID: 5655-R95

Entitlement identifier	Description	License option/ Pricing metric
S012LNL	WTX f/Appl Prgming	Basic OTC, Per MSU-day TUC
S012LNP	WTX w/Command Svr	Basic OTC, Per MSU-day TUC
S012LNT	WTX w/Launcher	Basic OTC, Per MSU-day TUC
S012LNX	WTX f/Integration Servers	Basic OTC, Per MSU-day TUC

Translation from MSUs to Value Units

	MSUs	Value Units/MSU
Base	1- 3	1
Ti er A	4- 45	0. 45
Ti er B	46- 175	0. 36
Ti er C	176- 315	0. 27
Ti er D	316+	0. 2

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program Name: WebSphere Transformation Extender for z/OS V8.2

Program PID: 5655-R95

The following information is a summary of all license options and the pricing metric offered for the above PID number.

WebSphere Transformation Extender for Application Programming

Entitlement identifier	Description	License options/ Pricing metrics
S012LNL	WTX for Application Programming	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S012LP8	Multiple	3480 tape cartridge

WebSphere Transformation Extender with Command Server

Entitlement identifier	Description	License options/ Pricing metrics
S012LNP	WTX w/Command Svr	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S012LP2	Multiple	3480 tape cartridge

WebSphere Transformation Extender with Launcher

Entitlement identifier	Description	License options/ Pricing metrics
S012LNT	WTX w/Launcher	Basic OTC, Value Unit
Orderable supply ID	Language	Distribution medium
S012LP6	Multiple	3480 tape cartridge

WebSphere Transformation Extender for Integration Servers

Entitlement Identifier	Description	License options/ Pricing metrics
S012LNX	WTX f/Integration Servers	Basic OTC, Value Unit
Orderable supply ID	Language	Distribution medium
S012LP4	Multiple	3480 tape cartridge

Subscription and Support PID: 5655-R96

The following information is a summary of all license options and pricing metric offered for the S&S PID number.

S&S for WebSphere Transformation Extender for Application Programming

Entitlement identifier	Description	License options/ Pricing metrics
S012LNJ	WTX for Application Programming S&S	SW S&S ASC SW S&S MSC (EMEA only) Decline SW S&S (no charge) Per MSU SW S&S Registration

Orderable supply ID	Language	Distribution medium
S012LN7	Multiple	Paper

S&S for WebSphere Transformation Extender with Command Server

Entitlement identifier	Description	License options/ Pricing metrics
S012LNG	WTX w/Command Server S&S	SW S&S ASC SW S&S MSC (EMEA only) Decline SW S&S (no charge) Per MSU SW S&S Registration

Orderable supply ID	Language	Distribution medium
S012LN9	Multiple	Paper

S&S for WebSphere Transformation Extender with Launcher

Entitlement identifier	Description	License options/ Pricing metrics
S012LNH	WTX w/Launcher S&S	SW S&S ASC SW S&S MSC (EMEA only) Decline SW S&S (no charge) Per MSU SW S&S Registration

Orderable supply ID	Language	Distribution medium
S012LNC	Multiple	Paper

S&S WebSphere Transformation for Integration Servers

Entitlement identifier	Description	License options/ Pricing metrics
S012LNK	WTX f/Integration Servers S&S	S&S SW S&S ASC SW S&S MSC (EMEA) only Decline SW S&S (no charge) Per MSU SW S&S Registration

Orderable supply ID	Language	Distribution medium
S012LNF	Multiple	Paper

Subscription and Support

To receive voice technical support via telephone during normal business hours and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions at no additional charge. Note that the customer is not entitled to new products.

When Subscription and Support is ordered, the charges will renew automatically annually unless cancelled by the customer.

Single version charging: To elect single version charging, you must notify and identify to IBM the prior program and replacement program, and the machine the programs are operating on.

Customized Offerings

Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®).

CBPDO and ServerPac are offered for Internet delivery, where ShopzSeries product ordering is available. Internet delivery of ServerPac may help improve automation and software delivery time. For more details on Internet delivery, refer to the ShopzSeries help information at

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

Media type for this software product is chosen during the Customized Offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOs — 3480, 3480 Compressed, 3490E, 3590, 3592*
- ServerPacs — 3480, 3480 Compressed, 3490E, 3590, 3592*
- SystemPacs — 3480, 3480 Compressed, 3490E, 3590, 3592*

* 3592 is highest density media. Selecting 3592 will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac due to additional customization, and data input verification.

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.

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.

Agreement for Acquisition of Software Maintenance: The following agreement applies for maintenance and does not require customer signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

All components of this program are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provides for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect.

S/390 and System z IBM Operational Support Services — SoftwareXcel is an option for those customers who desire added services.

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. Consult the IBM Software Support Guide for further information at

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

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

Program support: Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

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 for programs acquired under any of IBM On/Off CoD software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Authorization for use on home/portable computer: You may not copy and use this program on another computer without paying additional license fees.

Volume orders (IVO): No

IBM International Passport Advantage Agreement

Passport Advantage applies: No

Usage restriction: Yes

For licensing terms and information, refer to the License Information document that is provided with the product, or you can view the license documents on the IBM Software License Agreement Web site

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

Software Maintenance applies: No. For operating system software, the revised IBM Operational Support Services — SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the newly announced Software Maintenance offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised SoftwareXcel offering, visit

<http://www.ibm.com/services/sl/products>

For additional information on the revised IBM Operational Support Services, refer to Services Announcement [601-023](#), dated July 10, 2001.

IBM Operational Support Services — SoftwareXcel: Yes

System i™ Software Maintenance applies: No

Variable charges apply: No

Educational allowance available: Yes. A 15% education allowance applies to qualified education institution customers.

Replacement, upgrade, and migration

WebSphere Transformation Extender for z/OS does not automatically replace any program or product. However, most customers who are currently entitled to use a Transformation Extender product for z/OS through an IBM FCT, Ascential®, or Mercator contract terms, may be eligible to receive WebSphere Transformation Extender for z/OS V8.2 without charge.

An IBM migration team will work with current Transformation Extender customers to determine the correct eligibility, applicable terms and conditions, contracts, and quantities of WebSphere Transformation Extender for z/OS V8.2. For more information or assistance, contact an IBM WebSphere specialist or an authorized Business Partner.

Sub-capacity terms and conditions

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the Ordering information section.

Program number	Program name	Terms
5655-R95	WebSphere Transformation Extender for z/OS V8.2	Execution based

Full-capacity mainframes: In cases where full capacity is applicable, the following terms apply.

Execution based, z/OS based, full-machine based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

Sub-capacity mainframes: In cases where sub-capacity is applicable, the following terms apply.

Execution based: The required capacity of a System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to The IBM System z Machines Exhibit, Z125-3901, or visit the Mainframes section of the System z Exhibits Web site

<http://ibm.com/zseries/library/swpriceinfo/>

For more information on sub-capacity System z IPLA terms and conditions, refer to Software Announcement [204-184](#), dated August 10, 2004.

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex®. You may have one or more different environments across the enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified

Parallel Sysplex refers to one:

- That meets the criteria defined in Hardware Announcement [198-001](#), dated January 13, 1998.
- Where MLC pricing is aggregated across the sysplex

Sub-capacity eligibility: To be eligible for sub-capacity charging on select System z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390® operating system must be migrated to the z/OS (or z/OS.e) operating systems
- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating (or z/OS.e) systems must be running in z/Architecture™ (64-bit) mode

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing Web site

<http://ibm.com/zseries/swprice>

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement — Attachment for System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement — Attachment for IBM eServer System z 890 and 800 License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract — Amendment for IBM System z9™ and System z Programs Sub-Capacity Pricing (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.

On/Off CoD

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for Customer Initiated Upgrade and IBM eServer On/Off Capacity on Demand — Software (Z125-6611) must be signed prior to use.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

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. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in

higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Prices

Prices are not provided in this announcement. Prices may vary by country and dealer prices may vary. Prices are subject to change without notice. For additional information and current prices, contact your local IBM representative.

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>

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For more financing information, visit

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

Order now

To order, contact the Americas Call Centers, your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

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Internet: callserv@ca.ibm.com
Mail: IBM Teleweb Customer Support
ibm.com Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada
L3R 2Z1

Reference: LE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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