



IBM WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX V8.4.1 delivers productivity enhancements

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At a glance

New in IBM® WebSphere® Transformation with Launcher Extender Hypervisor Edition for AIX® V8.4.1:

- Integration: IBM Sterling Connect:Direct® adapter

Overview

IBM WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX V8.4.1 delivers the data transformation and validation required in your IT infrastructure.

Summary of new technical features in IBM WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX V8.4.1 base editions

General

- Support for mixed content and xsi:type in native XML
- Support for excess trailing spaces
- Improved diagnostics when using native XML in maps
- Improved functional maps that behave like functions when the type of the output card of the functional map is an item
- Enhanced serviceability

Connectivity

- Adds new IBM Sterling Connect:Direct
- Adds new Java™ Architecture for XML Binding (JAXB) adapter
- Adds HL7 MLLP adapter
- Supports currency for:
 - IBM DB2® 10.1
 - IBM Informix® V11.7
 - IBM Sterling B2B Integrator V5.2.4
 - Microsoft™ SQL Server 2012
 - Sybase SQL Server 15.7

Key prerequisites

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

Planned availability date

May 31, 2013: Electronic availability

Description

IBM WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX V8.4.1 (WebSphere TX) delivers the data transformation and validation required in your IT infrastructure.

Base editions of Websphere TX 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 location where WebSphere TX is implemented. Technology adapters for integrating with other technologies in the enterprise, such as IBM WebSphere MQ, are included in the base products.

Note: Not all adapters are supported on all platforms. For example, a subset of adapters is supported on IBM System z® and includes WebSphere MQ, file, and FTP. The adapters not included are those with royalty bearing encryption and security protocols, and those delivered in optional packs.

The following editions are available:

- **IBM WebSphere Transformation Extender for Application Programming** is used to deploy the transformation engine in custom applications and application servers, and uses the APIs provided to execute a transformation map.
- **IBM WebSphere Transformation Extender with Command Server** allows the transformation engine to be called directly from a command line, shell script, or timer. System z users of MVS™ Batch, CICS®, and IMS™ environments use this edition. For System z users, this edition includes the components in the Application Programming edition.
- **IBM WebSphere Transformation Extender with Launcher Hypervisor Edition** includes the Command Server capability, and provides a standalone map launcher service, which activates transformations based on event triggers. Examples of triggers include messages arriving on a message queue or files present in a directory. WebSphere Transformation Extender with Launcher Hypervisor Edition also provides conditional event processing such as browsing for certain messages in the queue, availability of files, and scheduled events.
- **IBM WebSphere Transformation Extender for Integration Servers** offers the transformation engine, packaged, ready to install and deploy with IBM WebSphere Process Server, IBM WebSphere Enterprise Service Bus, IBM WebSphere Message Broker, and IBM Sterling B2B Integrator.
- **IBM WebSphere Transformation Extender with Launcher Hypervisor Editions** allows WebSphere Transformation Extender to be deployed directly by the IBM Workload Deployer Appliance. This integration helps simplify the use of WebSphere Transformation Extender within virtualized and private cloud architectures. This integration allows you to make use of your existing WebSphere Transformation Extender maps in a private cloud environment, and can enhance the value that WebSphere Transformation Extender provides as a universal transformation solution.

Development tooling runs on Windows™ only and includes Design Studio tools that run standalone or plugged into an existing Eclipse standard workbench, and a Software Developer Kit for interfacing to WebSphere TX in a custom programming

environment. WebSphere Transformation Extender Design Studio is capable of importing nearly any industry format when available to industry communities such as XML schema. All WebSphere TX implementations require at least one order of WebSphere Transformation Extender Design Studio to develop, test, and deploy transformations.

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 a base edition of WebSphere TX.

WebSphere Transformation Extender industry packs provide capabilities that are ready to use to integrate a range of industry-standard data formats with your enterprise infrastructure. Industry packs can 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 help 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 help:

- 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

WebSphere Transformation Extender industry packs support the following standards:

- **National Automated Clearing House Association (NACHA)**
 - WebSphere Transformation Extender Pack for NACHA delivers templates for the Automated Clearing House (ACH) compliant message exchange used throughout North America for electronic payments.
 - 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 validation using the guidance provided by NACHA for years 2007 through 2013. Maps are included for conversion of Cash Concentration and Dispersion (CCD) and Corporate Trading Exchange (CTX) ACH formats.
- **Single Euro Payments Area (SEPA)**
 - WebSphere Transformation Extender Pack for SEPA is compliant with European Union European electronic payments infrastructure. It includes templates for SEPA credit transfers and direct debits, mapping between SEPA and SWIFT message type103, validation for European Payment Council's SEPA implementation guidelines, and support for the Credit Transfer and Direct Debit Implementation Guideline.
- **Society for Worldwide Interbank Financial (SWIFT)**
 - WebSphere Transformation Extender Pack for SWIFT provides support for SRG 2012 as well as updates for existing Corporate Actions, Payments, and Funds.
 - In addition to templates and maps, WebSphere Transformation Extender Pack for SWIFT includes validation to ensure messages conform to SWIFT message standards, delivery monitoring, and prioritization of message storage and retrieval. It uses the Logical Message Format (LMF), an XML representation of the SWIFT message set that eases integration with internal systems, and helps to shield users from SWIFT standards changes. It features an XML and Java-based error reporting mechanism, and provides for archiving all messages

processed by the system. The Java validation mechanism provides enhanced error reporting capabilities by pointing you directly to the source of the error.

- **Financial Information eXchange Protocol (FIX)**
 - WebSphere Transformation Extender Pack for FIX delivers prebuilt data transformation content for the FIX protocol. FIX is a set of message specifications for automated trading of financial instruments and is used as a standard format in processing and collaboration scenarios by banks, brokers and dealers, including the foreign exchange markets. This pack supports V4.0, V4.1, V4.2, V4.3, V4.4, V5.0, and V5.0 Service Pack 2 of the FIX protocol standards.
- **Association for Cooperative Operations Research and Development (ACORD)**
 - WebSphere Transformation Extender Pack for ACORD provides support for ACORD XML V1 standards for Property and Casualty and Surety and ACORD XML V2 Life Insurance. Type tree templates are included for nonvendor AL3 and a sample conversion map for AL3 to ACORD V1. ACORD XML Schema are available to ACORD members only.
- **WebSphere Transformation Extender Healthcare Packs**
 - WebSphere Transformation Extender Healthcare Packs deliver a bundle of packs to address healthcare industry connectivity including compliance with HIPAA, HL7, and NCPDP standards.
 - 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, 4010, and 5010 flat file formats for Professional and Institutional Claims and Coordination of Benefits. The pack includes compliance checking and handling of claims attachments.
 - HL7 is an ANSI-accredited standards organization operating in the healthcare arena. HL7 produces standards for the exchange, management, and integration of data intended to promote interoperability between healthcare information systems. WebSphere Transformation Extender Pack for HL7 includes HL7 V2.1, V2.2, V2.3, V2.6, V2.5, and V2.7 type trees. HL7 V3 XML formats can be easily imported into the Design Studio Type Designer using the XML Importer built into the tool.
 - NCPDP is a HIPAA-designated standards maintenance organization for finalized HIPAA transactions. NCPDP standards are used in the retail pharmacy sector. 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.
- **WebSphere Transformation Extender EDI Packs**
 - WebSphere Transformation Extender EDI Packs deliver a bundle of packs to address ASC X12, EDIFACT, and TRADACOMS standards formatting and compliance.
 - ASC X12 represents multiple business domains including finance, government, healthcare, insurance, and transportation. It supports X12 6040 standard.
 - EDIFACT includes prebuilt definitions for the United Nations Electronic Data Interchange for Administration, Commerce, and Transport (EDIFACT) standards. It supports d.11a and d.11b standards.
 - TRADACOMS is an EDI standard used in the retail sector for general merchandise.
- **WebSphere Transformation Extender: Miscellaneous options**
 - Simple Network Management Protocol (SNMP) Collection includes the SNMP Agent, which enables monitoring and management by an SNMP manager and an SNMP Adapter, which enables the sending of 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 flows. WebSphere Transformation Extender Trading Manager

users can audit, control, monitor, and view the entire B2B integration environment across the extended enterprise with security-enhanced data exchange fully integrated with back-end systems. This product remains at V8.2.

- WebSphere Transformation Extender Trading Manager can be integrated with WebSphere DataPower® XI50 or WebSphere Partner Gateway to provide an end-to-end B2B integration environment, and to expand the reach of WebSphere TX into B2B and EDI Gateway customer self-service, security, and AS1, AS2, and AS3 futures.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via the IBM website

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

Section 508 of the US Rehabilitation Act

IBM WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX V8.4.1 is capable as of May 31, 2013, 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 US 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

Reference information

Refer to:

- IBM WebSphere Transformation Extender V8.4.1, Software Announcement [213-142](#), dated April 23, 2013
- IBM WebSphere Transformation Extender for z/OS® V8.4.1, Software Announcement [213-139](#), dated April 23, 2013

Program number

Program number	VRM	Program name
5725-L32	8.4.1	IBM WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX

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

WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX :

- The minimum amount of disk space required is 1 GB. The amount of disk space needed in a production environment varies significantly based upon the solution implementation.
- The minimum amount of memory required is 128 MB. The amount of memory needed in a production environment varies significantly based upon the solution implementation.

For more information regarding system requirements for WebSphere Transformation Extender, visit

<http://www.ibm.com/software/products/us/en/wdatastagetx/>

Software requirements

- IBM AIX V7.1 for IBM Power Systems
- IBM PureApplication™ System W1700 V1.0

For more information regarding system requirements for WebSphere Transformation Extender, visit

<http://www.ibm.com/software/products/us/en/wdatastagetx/>

Companion products

Companion products can be found at

<http://www.ibm.com/software/products/us/en/wdatastagetx/>

Planning information

Packaging

No printed publications are included.

Security, auditability, and control

WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX uses the security and auditability features of the platform environment.

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.

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

For more information about IBM Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

<http://www.ibm.com/partnerworld/wps/bplocator/>

Product information

Licensed function title	Product group	Product category
IBM WebSphere Transformation Extender w/Launcher Hypervisor Edition for AIX	IBM WebSphere	webSphere Transformation Extender
Program name	PID number	Charge unit description
IBM WebSphere Transformation Extender w/Launcher Hypervisor Edition for AIX	5725-L32	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.

Passport Advantage program licenses

IBM WTX w/Launcher Hypervisor Edition for AIX

Part description	Part number
IBM WebSphere Transformation Extender w/Launcher Hypervisor Edition for AIX	
WTX w/L Hyper Ed for AIX Per Processor Value Unit (PVU) Annual SW S&S Rnw1	E0HGALL
WTX w/L Hyper Ed for AIX Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D0ZE6LL
WTX w/L Hyper Ed for AIX Per Processor Value Unit (PVU) SW S&S Reinstate 1	D0ZE7LL

Passport Advantage trade-up licenses

IBM WTX w/Launcher Hypervisor Edition for AIX

Precursor product	Trade-up product	Trade-up part number
IBM WebSphere Transformation Extender w/Launcher Hypervisor Edition for AIX		
IBM WebSphere Transformation Extender with Launcher	WTX w/L Hyper Ed for AIX Per Processor Value Unit (PVU) Trade Up Lic + SW	D0ZE8LL

Terms and conditions

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Part number products only, offered outside of Passport Advantage , where applicable, are license only and do not include Software Maintenance.

License Information form number

Program name	Program number	Form number
IBM WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX	5725-L32	L-LCLK-95SSYC

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 of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

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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 website at

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

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Other terms

IBM Operational Support Services - SoftwareXcel

No

System i Software Maintenance applies

No

Educational allowance available

Not applicable.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

Passport Advantage

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

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

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