



IBM WebSphere Transformation Extender V8.4.1 delivers productivity enhancements

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At a glance

New in IBM® WebSphere® Transformation Extender V8.4.1:

- Platform: Support for Linux™ on POWER® systems and new IBM WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX®
- Integration: IBM Sterling Connect:Direct® adapter
- Design Studio: Eclipse based COBOL copybook importer; visual mapping of XSLT; new XPATH, XSLT, and XVALIDATE functions; Java™ API for creating and modifying maps and type trees; automapping capability; large XML namespaces support

Overview

IBM WebSphere Transformation Extender delivers the data transformation and validation required in your IT infrastructure.

Summary of new technical features in IBM WebSphere Transformation Extender V8.4.1 base editions

General

- Support for Linux on POWER systems
- Support for mixed content and xsi:type in native XML
- Support for excess trailing spaces
- Improved diagnostics when using native XML in maps
- Enhanced serviceability
- Removed the following obsolete support:
 - Red Hat Enterprise Linux AS V4 for Intel™
 - Red Hat Enterprise Linux AS V4 for IBM System z®
 - SUSE Linux Enterprise Server 10 for Intel
 - SUSE Linux Enterprise Server 10 for IBM System z
 - IBM AIX V5.3
 - Solaris 9
 - Platform API on distributed platforms

Design Studio

- Includes Eclipse based COBOL copybook importer

- Includes a new Graphical Data Mapper for visual mapping of XSLT
- Includes JSON importer
- Delivers new XPATH, XSLT, and XVALIDATE functions
- Has new Java API that enables users to create and modify maps and type trees from a Java program
- Adds automapping capability
- Is able to handle large XML namespaces
- Is able to select a root in order to build just that one construct as the root of the tree when using Native Schema or the Xerces importer

Connectivity

- Adds new IBM Sterling Connect:Direct adapter
- 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 WebSphere Message Broker (IBM Integration Bus 9.0)
 - IBM Sterling B2B Integrator V5.2.4
 - Microsoft™ SQL Server 2012
 - Sybase SQL Server 15.7

IBM WebSphere Transformation Extender with Launcher enhancements:

- IBM WebSphere Transformation Extender with Launcher Hypervisor Edition for AIX

WebSphere Transformation Extender for Integration Servers

- Integration with IBM WebSphere Message Broker V8.0, IBM WebSphere Business Process Manager Advanced V8.0, and IBM Sterling B2B Integrator V5.2.4
- Removes the following obsolete support:
 - IBM WebSphere Enterprise Service Bus (integration replaced by Business Process Manager Advanced)

Key prerequisites

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

Planned availability date

May 31, 2013: Electronic availability

June 14, 2013: Media availability

Description

IBM WebSphere Transformation Extender (WebSphere TX) V8.4.1 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 encryption and security protocols, and those delivered in optional packs.

The following base 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** 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. The Launcher 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** allow 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 are 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, the 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**
 - 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

WebSphere Transformation Extender is capable as of June 14, 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

Reference information

Refer to:

- IBM WebSphere Transformation Extender for AIX V8.4.1, Software Announcement [213-097](#), 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
5724-Q23	8.4.1	IBM WebSphere Transformation Extender
5725-E33	8.4.1	IBM WebSphere Transformation Extender w/Launcher Hypervisor Edition

Education support

IBM Education Services has a number of courses for WebSphere Transformation Extender. Many of these courses are available in traditional classroom settings, via online training with a live instructor, or through a self paced virtual class.

Course code	Course title	Delivery type
6T115	IBM WebSphere Transformation Extender System Design	Classroom/ Instructor Led - Online Training
6T116	IBM WebSphere Transformation Extender System Management	Classroom/ Instructor Led - Online Training
6T133	IBM WebSphere Transformation Extender V8.3 Advanced Transformation Techniques	Classroom/ Instructor Led - Online Training
6T130	IBM WebSphere Transformation Extender V8.3 Fundamentals	Classroom / Instructor Led - Online Training
6S111	IBM WebSphere Transformation Extender V8.1 System Design	Self-paced Virtual Class
6S112	IBM WebSphere Transformation Extender V8.1 System Management	Self-paced Virtual Class
6S122	IBM WebSphere Transformation Extender V8.2 Advanced Transformation Techniques	Self-paced Virtual Class
6S120	IBM WebSphere Transformation Extender V8.2	Self-paced Virtual Class

6S123	Fundamentals IBM WebSphere Transformation Extender V8.2 Using XML	Self-paced Virtual Class
6S133	IBM WebSphere Transformation Extender V8.3 Advanced Transformation Techniques	Self-paced Virtual Class
6S130	IBM WebSphere Transformation Extender V8.3 Fundamentals	Self-paced Virtual Class
6S137	IBM WebSphere Transformation Extender V8.3 and Message Broker V7.0 Integration	Self-paced Virtual Class
WX110	WebSphere Expert Arena for IBM WebSphere Transformation Extender V8.1	Self-paced Virtual Class
DX635	Advanced transformation techniques for IBM WebSphere Transformation Extender	Classroom
DX632	Deploying and Managing Systems for IBM WebSphere Transformation Extender Launcher	Classroom
DX631	Design Systems for IBM WebSphere Transformation Extender Launcher	Classroom
DX636	Fundamentals of data transformation for IBM WebSphere Transformation Extender	Classroom
DX638	Implementing ANSI EDI X12 with IBM WebSphere Transformation Extender	Classroom
DX640	Implementing HIPAA solutions with IBM WebSphere Transformation Extender	Classroom
DX642	Implementing SAP R/3 solutions with IBM WebSphere Transformation Extender	Classroom
DX634	Implementing XML solutions with IBM WebSphere Transformation Extender	Classroom
DX643	Implementing database solutions with IBM WebSphere Transformation Extender	Classroom
DX639	Integrating web Services with IBM WebSphere Transformation	Classroom

DX637 Extender
 Using IBM WebSphere Classroom
 Transformation
 Extender Trading
 Manager

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

<http://www.ibm.com/services/learning/>

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

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 these products.

For more information about the WebSphere Transformation Extender family of products, refer to

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

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 Command Server, WebSphere Transformation Extender with Launcher, WebSphere Transformation Extender with Launcher Hypervision Edition, and WebSphere Transformation Extender for Application Programming:

- 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.

WebSphere Transformation Extender for Integration Servers:

- 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.
- For minimum memory requirements, consult the system requirements for the Integration Server being utilized, since WebSphere Transformation Extender runs within the Integration Server process.

WebSphere Transformation Extender Design Studio:

- The minimum amount of disk space required is 2 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.

WebSphere Transformation Extender Launcher Agent, and WebSphere Transformation Extender Secure Adapter Collection:

- The minimum amount of disk space required is less than 20 MB.
- The memory required for these components is insignificant, in that they run in the same process with the base editions (WebSphere Transformation Extender for Application Servers, WebSphere Transformation Extender with Command Server, WebSphere Transformation Extender for Integration Servers, and WebSphere Transformation Extender with Launcher).

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

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

Software requirements

One of the following operating systems:

- IBM AIX V6.1 TL5 for IBM Power Systems
- IBM AIX V7.1 for IBM Power Systems
- HP-UX 11i v2 IA64
- HP-UX 11i v3 IA64
- Red Hat Enterprise Linux (RHEL) 5 Advanced Platform x86-32
- Red Hat Enterprise Linux (RHEL) 5 Advanced Platform x86-64
- Red Hat Enterprise Linux (RHEL) 5 Advanced Platform POWER System
- Red Hat Enterprise Linux (RHEL) 5 Advanced Platform System z
- Red Hat Enterprise Linux (RHEL) 6 Advanced Platform x86-32
- Red Hat Enterprise Linux (RHEL) 6 Advanced Platform x86-64
- Red Hat Enterprise Linux (RHEL) 6 Advanced Platform POWER System
- Red Hat Enterprise Linux (RHEL) 6 Advanced Platform System z
- SUSE Linux Enterprise Server (SLES) 11 SP1 x86-32
- SUSE Linux Enterprise Server (SLES) 11 SP1 x86-64
- SUSE Linux Enterprise Server (SLES) 11 SP1 POWER System
- SUSE Linux Enterprise Server (SLES) 11 SP1 System z
- Solaris 10 SPARC
- Solaris 11 SPARC
- Windows XP SP2 Professional x86-32
- Windows XP SP2 Professional with FDCC x86-32
- Windows Vista SP1 Business x86-32
- Windows Vista SP1 Business x86-64

- Windows Vista SP1 Enterprise x86-32
- Windows Vista SP1 Enterprise x86-64
- Windows Vista SP1 Enterprise with FDCC x86-32
- Windows Vista SP1 Ultimate x86-32
- Windows Vista SP1 Ultimate x86-64
- Windows 7 Enterprise x86-32
- Windows 7 Enterprise x86-64
- Windows 7 Professional x86-32
- Windows 7 Professional x86-64
- Windows 7 Ultimate x86-32
- Windows 7 Ultimate x86-64
- Windows 8 Enterprise x86-32
- Windows 8 Enterprise x86-64
- Windows 8 Professional x86-32
- Windows 8 Professional x86-64
- Windows 8 Standard x86-32
- Windows 8 Standard x86-64
- Windows Server 2003 SP2 Standard Edition x86-32
- Windows Server 2003 SP2 Enterprise Edition x86-32
- Windows Server 2003 R2 SP2 Standard Edition x86-32
- Windows Server 2003 R2 SP2 Enterprise Edition x86-32
- Windows Server 2008 Standard Edition x86-32
- Windows Server 2008 Standard Edition x86-64
- Windows Server 2008 Enterprise Edition x86-32
- Windows Server 2008 Enterprise Edition x86-64
- Windows Server 2008 R2 Standard Edition x86-64
- Windows Server 2008 R2 Enterprise Edition x86-64
- Windows Server 2012 Standard Edition x86-64
- Windows Server 2012 Datacenter Edition x86-64

WebSphere Transformation Extender with Launcher Hypervisor Edition also requires:

- VMware ESX 4.1
- At least one of the following provisioning products to enable deployment:
 - IBM Workload Deployer V3.1 (Fix pack 2, or later is recommended.)
 - VMware vCenter 4.1

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

Customer responsibilities

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.

Packaging

No printed publications are included.

Security, auditability, and control

WebSphere Transformation Extender 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.

Product information

Licensed function title	Product group	Product category
IBM WebSphere Transformation Extender Design Studio	IBM WebSphere	WebSphere Transformation Extender
IBM WebSphere Transformation Extender Launcher Agent	IBM WebSphere	WebSphere Transformation Extender
IBM WebSphere Transformation Extender Secure Adapter Collection	IBM WebSphere	WebSphere Transformation Extender
IBM WebSphere Transformation Extender for Application Programming	IBM WebSphere	WebSphere Transformation Extender
IBM WebSphere Transformation Extender for Integration Servers	IBM WebSphere	WebSphere Transformation Extender
IBM WebSphere Transformation Extender w/Launcher Hypervisor Edition	IBM WebSphere	WebSphere Transformation Extender
IBM WebSphere Transformation Extender with Command Server	IBM WebSphere	WebSphere Transformation Extender
IBM WebSphere Transformation Extender with Launcher	IBM WebSphere	WebSphere Transformation Extender
Program name	PID number	Charge unit description
IBM WebSphere Transformation Extender Design Studio	5724-Q23	Per Authorized User for Linux on System z
IBM WebSphere Transformation Extender Design Studio	5724-Q23	Per Authorized User

IBM WebSphere Transformation Extender Design Studio	5724-Q23	Per Authorized User for System z
IBM WebSphere Transformation Extender Launcher Agent	5724-Q23	Per Application Instance for System z
IBM WebSphere Transformation Extender Launcher Agent	5724-Q23	Per Establishment
IBM WebSphere Transformation Extender Launcher Agent	5724-Q23	Per Application Instance for Linux on System z
IBM WebSphere Transformation Extender Launcher Agent	5724-Q23	Per Application Instance
IBM WebSphere Transformation Extender Launcher Agent	5724-Q23	Per Establishment for Linux on System z
IBM WebSphere Transformation Extender Launcher Agent	5724-Q23	Per Establishment for System z
IBM WebSphere Transformation Extender Secure Adapter Collection	5724-Q23	Per Establishment for Linux on System z
IBM WebSphere Transformation Extender Secure Adapter Collection	5724-Q23	Per Establishment for System z
IBM WebSphere Transformation Extender Secure Adapter Collection	5724-Q23	Per Application Instance for Linux on System z
IBM WebSphere Transformation Extender Secure Adapter Collection	5724-Q23	Per Application Instance
IBM WebSphere Transformation Extender Secure Adapter Collection	5724-Q23	Per Establishment
IBM WebSphere Transformation Extender Secure Adapter Collection	5724-Q23	Per Application Instance for System z
IBM WebSphere Transformation Extender for Application Programming	5724-Q23	Per Processor Value Unit for Linux on System z
IBM WebSphere Transformation Extender for Application Programming	5724-Q23	Per Processor Value Unit (PVU)
IBM WebSphere Transformation Extender for Integration Servers	5724-Q23	Per Processor Value Unit for Linux on System z
IBM WebSphere Transformation Extender for Integration Servers	5724-Q23	Per Processor Value Unit (PVU)
IBM WebSphere Transformation Extender w/Launcher Hypervisor Edition	5725-E33	Per Processor Value Unit (PVU)
IBM WebSphere Transformation Extender with Command Server	5724-Q23	Per Processor Value Unit for Linux on System z
IBM WebSphere Transformation Extender with Command Server	5724-Q23	Per Processor Value Unit (PVU)
IBM WebSphere Transformation Extender with Launcher	5724-Q23	Per Processor Value Unit for Linux on System z
IBM WebSphere Transformation Extender with Launcher	5724-Q23	Per Processor Value Unit (PVU)

Charge metrics definitions

Authorized User

Authorized User is a unit of measure by which the program can be licensed. An Authorized User is a unique person who is given access to the program. The

program may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of the program at one time. Licensee must obtain separate, dedicated entitlements for each Authorized User accessing the program in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.

Note: Some programs may be licensed where devices are considered users. In that case, the following applies. Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate user of the program and requires an entitlement as if that device were a person.

Install

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

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

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender for Integration Servers	
WS Trans Ext for Intg Srv Per Processor Value Unit (PVU) Annual SW S&S Rnw1	E02HBL1
WS Trans Ext for Intg Srv Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D581DLL
WS Trans Ext for Intg Srv Per Processor Value Unit (PVU) SW S&S Reinstate	D581ELL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender Launcher Agent	
WS Trans Ext Launch Agent Per Application Instance Annual SW S&S Rnw1	E02P7LL
WS Trans Ext Launch Agent Per Application Instance Lic + SW S&S 12 Mo	D58R5LL
WS Trans Ext Launch Agent Per Application Instance SW S&S Reinstate 12 Mo	D58R6LL
WS Trans Ext Launch Agent Per Establishment Annual SW S&S Rnw1	E02P8LL
WS Trans Ext Launch Agent Per Establishment Lic + SW S&S 12 Mo	D58R8LL
WS Trans Ext Launch Agent Per Establishment SW S&S Reinstate 12 Mo	D58R9LL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender Secure Adapter Collection	
WS Trans Ext Sec Adpt Col Per Application Instance Annual SW S&S Rnw1	E02P6LL
WS Trans Ext Sec Adpt Col Per Application Instance Lic + SW S&S 12 Mo	D58R4LL
WS Trans Ext Sec Adpt Col Per Application Instance SW S&S Reinstate 12 Mo	D58R7LL
WS Trans Ext Sec Adpt Col Per Establishment Annual SW S&S Rnw1	E02PALL
WS Trans Ext Sec Adpt Col Per Establishment Lic + SW S&S 12 Mo	D58RCLL
WS Trans Ext Sec Adpt Col Per Establishment SW S&S Reinstate 12 Mo	D58RDLL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender with Launcher	
WS Tran Extend w/Launcher Per Processor Value Unit (PVU) Annual SW S&S Rnw1	E02URLL
WS Tran Extend w/Launcher Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D5949LL
WS Tran Extend w/Launcher Per Processor Value Unit	D594ALL

(PVU) SW S&S Reinstate

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender with Command Server	
WS Tran Extend Com Server Per Processor Value Unit (PVU) Annual SW S&S Rnw1	E02UQLL
WS Tran Extend Com Server Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D5947LL
WS Tran Extend Com Server Per Processor Value Unit (PVU) SW S&S Reinstate	D5948LL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender for Application Programming	
WTX App Programming Per Processor Value Unit (PVU) Annual SW S&S Rnw1	E02UULL
WTX App Programming Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D594FLL
WTX App Programming Per Processor Value Unit (PVU) SW S&S Reinstate 12 Mo	D594GLL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender Design Studio	
WS Trans Ext Pk Dsgn Studio Per Authorized User Annual SW S&S Rnw1	E02RZLL
WS Trans Ext Pk Dsgn Studio Per Authorized User Lic + SW S&S 12 Mo	D58XCLL
WS Trans Ext Pk Dsgn Studio Per Authorized User SW S&S Reinstate 12 Mo	D58XGLL

WebSphere Transformation Extender w/Hypervisor

Part description	Part number
IBM WebSphere Transformation Extender w/Launcher Hypervisor Edition	
WTX w/Launcher Hypervisor Per Processor Value Unit (PVU) Annual SW S&S Rnw1	E0CU1LL
WTX w/Launcher Hypervisor Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D0LCELL
WTX w/Launcher Hypervisor Per Processor Value Unit (PVU) SW S&S Reinstate	D0LCFLL

Passport Advantage trade-up licenses

WebSphere Transformation Extender w/Hypervisor

Precursor product	Trade-up product	Trade-up part number
IBM WebSphere Transformation Extender w/Launcher Hypervisor Edition		
IBM WebSphere Transformation Extender with Launcher	WTX w/Launcher Hypervisor Per Processor Value Unit (PVU) Trade Up Lic + SW	D0LCGLL

Cross-platform products

Cross-platform products for use on System z

Order the part numbers that follow when the product is used for either the development of code that will be deployed on System z servers or when the product will be communicating or transferring data between a distributed server and a System z server. Otherwise order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender Launcher Agent	
WS Trans Ext Launch Agent Per Application Instance Sys	E04KQLL
z Annual SW S&S Rnw1	
WS Trans Ext Launch Agent Per Application Instance Sys	D03LTLL
z Lic + SW S&S 12 Mo	
WS Trans Ext Launch Agent Per Application Instance Sys	D03LULL
z SW S&S Reinstate	
WS Trans Ext Launch Agent Per Establ. for System z	E0497LL
Annual SW S&S Rnw1	
WS Trans Ext Launch Agent Per Establ. for System z Lic	D61Z4LL
+ SW S&S 12 Mo	
WS Trans Ext Launch Agent Per Establ. for System z SW	D61Z5LL
S&S Reinstate 12 Mo	

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender Secure Adapter	
Collection	
WS Trans Ext Sec Adpt Col Per Application Instance Sys	E04KSLL
z Annual SW S&S Rnw1	
WS Trans Ext Sec Adpt Col Per Application Instance Sys	D03LXLL
z Lic + SW S&S 12 Mo	
WS Trans Ext Sec Adpt Col Per Application Instance Sys	D03LYLL
z SW S&S Reinstate	
WS Trans Ext Sec Adpt Col Per Establ. for System z	E049JLL
Annual SW S&S Rnw1	
WS Trans Ext Sec Adpt Col Per Establ. for System z Lic	D61ZTLL
+ SW S&S 12 Mo	
WS Trans Ext Sec Adpt Col Per Establ. for System z SW	D61ZULL
S&S Reinstate 12 Mo	

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender Design Studio	
WS Trans Ext Pk Dsgn Studio Per Auth.User for System z	E02RYLL
Annual SW S&S Rnw1	
WS Trans Ext Pk Dsgn Studio Per Auth.User for System z	D58XBLL
Lic + SW S&S 12 Mo	
WS Trans Ext Pk Dsgn Studio Per Auth.User for System z	D58XFLL
SW S&S Reinstate 12	

Cross-platform product for use on System z IFL engines or zEnterprise BladeCenter Extension

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numbers provides the identical supply and authorization as the other set in this announcement.

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender for Integration Servers	
WS Trans Ext for Intg Srv Per Proc VU for Lin Sys z Annual SW S&S Rnw1	E049ELL
WS Trans Ext for Intg Srv Per Proc VU for Lin Sys z Lic + SW S&S 12 Mo	D61ZILL
WS Trans Ext for Intg Srv Per Proc VU for Lin Sys z SW S&S Reinstate 12 Mo	D61ZJLL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender Launcher Agent	
WS Trans Ext Launch Agent Per Ap Ins for Lin on Sys z Annual SW S&S Rnw1	E07RFL
WS Trans Ext Launch Agent Per Ap Ins for Lin on Sys z Lic + SW S&S 12 Mo	D0B09LL
WS Trans Ext Launch Agent Per Ap Ins for Lin on Sys z SW S&S Reinstate 12	D0B0ALL
WS Trans Ext Launch Agent Per Estab.for Linux on Sys.z Annual SW S&S Rnw1	E07RGLL
WS Trans Ext Launch Agent Per Estab.for Linux on Sys.z Lic + SW S&S 12 Mo	D0B0BLL
WS Trans Ext Launch Agent Per Estab.for Linux on Sys.z SW S&S Reinstate 12	D0B0CLL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender Secure Adapter Collection	
WS Trans Ext Sec Adpt Col Per Ap Ins for Lin on Sys z Annual SW S&S Rnw1	E07SBL
WS Trans Ext Sec Adpt Col Per Ap Ins for Lin on Sys z Lic + SW S&S 12 Mo	D0B2ALL
WS Trans Ext Sec Adpt Col Per Ap Ins for Lin on Sys z SW S&S Reinstate 12	D0B2BLL
WS Trans Ext Sec Adpt Col Per Estab.for Linux on Sys.z Annual SW S&S Rnw1	E07SCLL
WS Trans Ext Sec Adpt Col Per Estab.for Linux on Sys.z Lic + SW S&S 12 Mo	D0B2CLL
WS Trans Ext Sec Adpt Col Per Estab.for Linux on Sys.z SW S&S Reinstate 12	D0B2DLL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender with Launcher	
WS Tran Extend w/Launcher Per Proc VU for Lin Sys z Annual SW S&S Rnw1	E0499LL
WS Tran Extend w/Launcher Per Proc VU for Lin Sys z Lic + SW S&S 12 Mo	D61Z8LL
WS Tran Extend w/Launcher Per Proc VU for Lin Sys z SW S&S Reinstate 12 Mo	D61Z9LL

WebSphere Transformation Extender

Part description	Part
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number

IBM WebSphere Transformation Extender with Command Server	
WS Tran Extend Com Server Per Proc VU for Lin Sys z Annual SW S&S Rnw1	E0495LL
WS Tran Extend Com Server Per Proc VU for Lin Sys z Lic + SW S&S 12 Mo	D61Z0LL
WS Tran Extend Com Server Per Proc VU for Lin Sys z SW S&S Reinstate 12 Mo	D61Z1LL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender for Application Programming	
WTX App Programming Per Proc VU for Lin Sys z Annual SW S&S Rnw1	E0491LL
WTX App Programming Per Proc VU for Lin Sys z Lic + SW S&S 12 Mo	D61YSLL
WTX App Programming Per Proc VU for Lin Sys z SW S&S Reinstate 12 Mo	D61YTLL

WebSphere Transformation Extender

Part description	Part number
IBM WebSphere Transformation Extender Design Studio	
WS Trans Ext Pk Dsgn Studio Per Aut.U.for Linux on Sys.z Annual SW S&S Rnw1	E07RELL
WS Trans Ext Pk Dsgn Studio Per Aut.U.for Linux on Sys.z Lic + SW S&S 12 Mo	D0B07LL
WS Trans Ext Pk Dsgn Studio Per Aut.U.for Linux on Sys.z SW S&S Reinstate	D0B08LL

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License Information form numbers

Program name	Program number	Form number
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webSphere Transformation Extender with Hypervisor	5725-E33	L-TWQM-8KFQRD

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