

WebSphere Transformation Extender



What's New

Version 8.1

Note

Before using this information, be sure to read the general information in "Notices" on page 9.

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This edition of this document applies to WebSphere Transformation Extender, 8.1 and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. What's new in WebSphere Transformation Extender 8.1

Accessibility/Section 508

New keyboard functionality and accessibility enhancements promote ease-of-use for users with disabilities. The accessibility enhancements introduced in this release conform to the CI 162 checklist defined by IBM and enable the product to work well with third-party accessibility testing products, such as JAWS.

Additional code pages supported through ICU

WebSphere Transformation Extender now uses International Components for Unicode (ICU) 3.2.1, supporting Unicode 4.0. This feature provides more than 200 additional code pages.

Remote debugging

Supported on Windows, UNIX, and USS, this feature allows a map to be debugged remotely by means of a new debugging server.

Design Studio applications

- The graphical user interfaces of the Design Studio applications have changed. All window colors are configurable and icons have changed in shape and color to conform to accessibility requirements.
- The Where Used property in the Type Designer has been enhanced with a "go to" functionality that can quickly take you to other cards where the type is used.
- The new wrapping rules functionality allows you to drag a function from the Insert Function window to a rule.
- There are two new functionality options for output cards called "Clear Contents" and "Insert NONE".
- The Design Studio applications now support several international languages.

External functions

- The new capabilities for external functions promote seamless integration with third-party functions. This feature is an extension of the EXIT function and allows you to develop custom functions that support number, date-time, and text formats. When used in map rules, the functions are platform independent.
- New function libraries have been added: mathlib, resourcelib, and xmllib. Mathlib provides a set of mathematical functions for calculating variations of sine, cosine, tangent, exponential, factorial, logarithms, power, and pseudorandom values. Resourcelib provides a set of functions for obtaining locale, resource alias, and installation directory values. Xmllib provides a set of functions that can validate, query, and apply XSLT transformation to XML input.

License management

WebSphere Transformation Extender supports a new form of license management using IBM Tivoli License Manager (ITLM), Version 2.1, across all WebSphere Transformation Extender platforms except z/OS. Implementing ITLM allows sub-capacity pricing for eBusiness On Demand.

Notes about upgrading

- For performance reasons, if you choose to recompile maps using version 8.1, it is recommended that you first reanalyze the associated type trees using version 8.1.
- Use of new code page functionality requires changes to the Data Language and National Language type properties in type trees. If you previously used a non-international version of WebSphere Transformation Extender (formerly DataStage TX or Mercator), Native has been redefined to be Latin1 instead of ASCII.
- WebSphere Transformation Extender 8.1 can coexist on the same computer with older releases of the product starting from 8.0.
- Maps and system files from version 5.0 are not compatible with version 8.1. To use your systems and maps from version 5.0 in this release, you must regenerate them.

Chapter 2. Migration information

What was formerly know as "Ascential" has been transitioned to reflect the IBM Corporation brand and logo. The following information is provided to assist with the migration process from Ascential DataStage TX to the WebSphere Transformation Extender suite of products.

Product and component name changes

The following table lists the names of WebSphere Transformation Extender products and product components that have changed significantly since version 7.5.

Mercator Software (as of version 7.5)	Ascential Software (version 8.0)	IBM Corporation (beginning with version 8.1)
Mercator Integration Broker	Ascential DataStage TX	IBM WebSphere Transformation Extender
Security Option	Security Collection	Secure Adapter Collection
WebSphere MQ Integrator Plug-in	Ascential Plug-in for IBM WebSphere MQ Integrator	IBM WebSphere Transformation Extender for Message Broker
Mercator Programming Interface	TX Programming Interface	IBM WebSphere Transformation Extender Programming Interface
Event Server	Event Server	Launcher
Event Agent	Event Agent	Launcher Agent

Deprecation of file names

Older file names and environment variables are being deprecated and could become non-supported in any future release. All 8.1 applications must use the new names and older applications should be changed, as necessary, to use the new names.

The following tables contain information to identify the file, path, executable, and object names that have changed.

Table 1. All operating systems

7.5	8.0	8.1
com.mercator.·	com.ascentialsoftware.·	com.ibm.websphere.dtx.·
com/mercator/·	com/ascentialsoftware/·	com/ibm/websphere/dtx/·
Launcher.txt	CompoundSystem<date> <time>.txt or <unique_name><date> <time>.txt	(no change)
mercator.acl	dstx.acl	dtx.acl
mercator.ini	dstx.ini	dtx.ini

Table 1. All operating systems (continued)

7.5	8.0	8.1
mercator_smi1.mib	dstx_smi1.mib	dtx.smi1.mib
merchttpd.conf	evntagnt.conf	Inchagnt.conf
merchttp.log	evntagnt.log	Inchagnt.log
mercrmgr.log	For Launcher: CompoundSystem<date> <time>.log or <unique_name><date> <time>.log For Command Server, mercrmgr.log is still used.	dtxrmgr.log
	mercAbort.log	dtxAbort.log
	dstxconn.log	dtxconn.log
mercserv.cfg	dstxtux.cfg	dtxtux.cfg
mercwlcontrol.jar	dstxwlcontrol.jar	dtxwlcontrol.jar
	Error messages with prefix ASCL-TX*	Prefix changed to DTX* Note: not all error messages are prefixed
	Error messages with prefix ASCL-TX-ES	Prefix changed to DTXLN* (due to Event Server to Launcher rename)

Table 2. Windows operating systems

7.5	8.0	8.1
Mercator.bin	dstx.bin	dtx.bin
merchttpd.exe	evntagnt.exe	Inchagnt.exe
merclmon.exe	dstxmon.exe	dtxmon.exe
mercnet.exe	dstx.exe	dtxcmds.exe
mercserv71.exe	dstxtux.exe	dtxtux.exe
mercver.exe	dstxver.exe	dtxver.exe
mercntsv.log	CompoundSystem<date> <time>.log or <unique_name><date><time> .log	(no change)
	dstxpage.exe	dtxpage.exe
	dstxprof.exe	dtxprof.exe
	EventServer.bat	Lanucher.bat
	EventServerAdmin.bat	LauncherAdmin.bat
	mercssl	(no change)
	mercsocks	(no change)

Table 3. UNIX operating systems (including mainframe USS)

7.5	8.0	8.1
mercator	dstx	dtxcmdsv
	dstxpage	dtxpage
	dstxprof	dtxprof
	dstxinfo	dtxinfo
merchttpd	evntagnt	lnchagent
mercinst	dstxinst	dtxinst
mercserv71	dstxtux	dtxtux
unixmercver	dstxver	dtxver
	EventServer.sh	launcher.sh
	EventServerAdmin.sh	launcheradmin.sh
debug.log	CompoundSystem<date> <time>.log or <unique_name><date><time> .log	(no change)

Table 4. Cluster Support on the Sun Solaris

7.5	8.0	8.1
etc/MCTR.scib	etc/ASCL.scdstx	etc/IBM.scdtx
MCTRscib	ASCLscdstx	IBMscdstx
MCTRscib.txt	ASCLscdstx.txt	IBMscdstx.txt
scib	scdstx	scdstx
scmcrtr	scascl	scIBM
src/scib_esmon.c	src/scdstx_esmon.c	src/scdstx_esmon.c
src/scib_mon_check.ksh	src/scdstx_mon_check.ksh	src/scdstx_mon_check.ksh
src/scib_probe.ksh	src/scdstx_probe.ksh	src/scdstx_probe.ksh
src/scib_svc_start.ksh	src/scdstx_svc_start.ksh	src/scdstx_svc_start.ksh
src/scib_svc_stop.ksh	src/scdstx_svc_stop.ksh	src/scdstx_svc_stop.ksh
src/scib_update.ksh	src/scdstx_update.ksh	src/scdstx_update.ksh
src/scib_validate.ksh	src/scdstx_validate.ksh	src/scdstx_validate.ksh
util/register_scib	util/register_scdstx	util/register_scdtx
util/unregister_scib	util/unregister_scdstx	util/unregister_scdtx

Table 5. OS/390 and z/OS

7.5	8.0	8.1
mercctst.cob (or .cc2)	dstxctst.cc2	DTXSCTST
MERCATOR... (PDS names)	DSTX...	DTX...
MERC. (DD: definitions)	DSTX.	DTX.
MERCATOR (Batch executable)	DSTX	DTXCMDSV

Table 5. OS/390 and z/OS (continued)

7.5	8.0	8.1
MERC (CICS transaction name)	DSTX	DTXI
MERCCICS (CICS executable)	DSTXCICS	DTXI
MERT (CICS test transaction name)	DSTT	DTXT

Table 6. Database triggering

8.0	8.1
Trigger Definition: xp_mercwait	xp_dtxwait
Trigger Definition: xp_mercsignal	xp_dtxsignal
Trigger Definition: xp_mercregister	xp_dtxregister
Trigger Definition: xp_mercstatus	xp_dtxstatus

Table 7. Java package names (Jar files, Java tools, APIs, Adapters)

8.0	8.1
EventServer.jar	launcher.jar
eventserverclient.jar	launcherclient.jar
com.ibm.eventserver	com.ibm.websphere.dtx.launcher
com.ibm.resourceregistry	com.ibm.websphere.dtx.resourceregistry
com.ibm.mgmtconsole	com.ibm.websphere.dtx.mgmtconsole
com.ibm.communication	com.ibm.websphere.dtx.communication
com.ibm.snmpagent	com.ibm.websphere.dtx.snmpagent
com.ibm.datastagetx.dstxpi.corba	com.ibm.websphere.dtx.dstxpi.corba
com.ibm.datastagetx.dstxpi	com.ibm.websphere.dtx.dstxpi
com.ibm.datastagetx.dstxpi.ejb	com.ibm.websphere.dtx.dstxpi.ejb
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com.ibm.datastagetx.jca	com.ibm.websphere.dtx.jcl
com.ibm.datastagetx.m4corba	com.ibm.websphere.dtx.m4corba
com.ibm.datastagetx.m4java	com.ibm.websphere.dtx.m4java
com.ibm.datastagetx.m4jca	com.ibm.websphere.dtx.m4jca
com.ibm.datastagetx.m4jms	com.ibm.websphere.dtx.m4jms
com.ibm.datastagetx.m4jndi	com.ibm.websphere.dtx.m4jndi
com.ibm.datastagetx.m4mime	com.ibm.websphere.dtx.m4mime
com.ibm.datastagetx.m4qs	com.ibm.websphere.dtx.m4qs
com.ibm.datastagetx.m4snmp	com.ibm.websphere.dtx.m4snmp
com.ibm.datastagetx.m4soap	com.ibm.websphere.dtx.m4soap
com.ibm.datastagetx.wlcontrol	com.ibm.websphere.dtx.wlcontrol
com.ibm.datastagetx.wsdlimp	com.ibm.websphere.dtx.wsdlimp

Table 8. WTX for Message Broker

8.0	8.1
com.ibm.datastagetx.DSTXPlugIn.link	com.ibm.websphere.dtx.DTXPlugIn.link
dstxwmqi.ini	dtxwmqi.ini
dstxwmqi.lil	dtxwmqi.lil
toolkit/v5/DSTXPlugIn.msgnode	toolkit/v5/DTXPlugIn.msgnode
toolkit/v5/DSTXPlugIn.properties	toolkit/v5/DTXPlugIn.properties
toolkit/v5/icons/full/clcl16/DSTXPlugIn.gif	toolkit/v5/icons/full/clcl16/DTXPlugIn.gif
toolkit/v5/icons/full/obj16/DSTXPlugIn.gif	toolkit/v5/icons/full/obj16/DTXPlugIn.gif
toolkit/v5/icons/full/obj30/DSTXPlugIn.gif	toolkit/v5/icons/full/obj30/DTXPlugIn.gif
toolkit/v6/DSTXPlugIn.msgnode	toolkit/v6/DTXPlugIn.msgnode
toolkit/v6/DSTXPlugIn.properties	toolkit/v6/DTXPlugIn.properties
toolkit/v6/icons/full/clcl16/DSTXPlugIn.gif	toolkit/v6/icons/full/clcl16/DTXPlugIn.gif
toolkit/v6/icons/full/obj16/DSTXPlugIn.gif	toolkit/v6/icons/full/obj16/DTXPlugIn.gif
toolkit/v6/icons/full/obj30/DSTXPlugIn.gif	toolkit/v6/icons/full/obj30/DTXPlugIn.gif

Environment variables

8.0	8.1
ASCENTIAL_SERVER_ADDRESS	DTX_SERVER_ADDRESS
ASCENTIAL_SERVER_NAME	DTX_SERVER_NAME
MERC_DB_DEBUG_ENV	DTX_DB_DEBUG_ENV
MERC_DEBUG	DTX_DEBUG
MERC_DO_NOT_CHDIR	DTX_DO_NOT_CHDIR
MERC_HOME_DIR	DTX_HOME_DIR
MERC_LOG_RES_ALIAS	DTX_LOG_RES_ALIAS
MERC_LOG_RES_ALIAS_DECRYPT	DTX_LOG_RES_ALIAS_DECRYPT
MERC_TMP_DIR	DTX_TMP_DIR
MERC_TTMAKER_TMPFILE	DTX_TTMAKER_TMPFILE
MERCATOR_DB_CLIENT_CCSID	DTX_DB_CLIENT_CCSID
MERCATOR_DB_HOST_CCSID	DTX_DB_HOST_CCSID
MERCATOR_DB_SERVER_MODE	DTX_DB_SERVER_MODE
MERCATOR_DB_SYS_NAMING	DTX_DB_SYS_NAMING
MERCATOR_DB_TRIGGER_QUALIFIER	DTX_DB_TRIGGER_QUALIFIER
MERCATOR_DB_TRIGGER_QUALIFIER_SQLSVR	DTX_DB_TRIGGER_QUALIFIER_SQLSVR
MERCATOR_DB_TRIGGER_SCHEMA	DTX_DB_TRIGGER_SCHEMA
MERCATOR_DB_TRIGGER_SCHEMA_DB2	DTX_DB_TRIGGER_SCHEMA_DB2
MERCATOR_DB_TRIGGER_SCHEMA_INFORMIX	DTX_DB_TRIGGER_SCHEMA_INFORMIX
MERCATOR_DB_TRIGGER_SCHEMA_ORACLE	DTX_DB_TRIGGER_SCHEMA_ORACLE
MERCATOR_DB_TRIGGER_SCHEMA_SEPARATOR	DTX_DB_TRIGGER_SCHEMA_SEPARATOR

8.0	8.1
MERCATOR_DB_TRIGGER_SCHEMA_SEPARATOR_DB2	DTX_DB_TRIGGER_SCHEMA_SEPARATOR_DB2
MERCATOR_DB_TRIGGER_SCHEMA_SEPARATOR_INFORMIX	DTX_DB_TRIGGER_SCHEMA_SEPARATOR_INFORMIX
MERCATOR_DB_TRIGGER_SCHEMA_SEPARATOR_ORACLE	DTX_DB_TRIGGER_SCHEMA_SEPARATOR_ORACLE
MERCATOR_DB_TRIGGER_SCHEMA_SEPARATOR_SQLSVR	DTX_DB_TRIGGER_SCHEMA_SEPARATOR_SQLSVR
MERCATOR_DB_TRIGGER_SCHEMA_SQLSVR	DTX_DB_TRIGGER_SCHEMA_SQLSVR
MERCATOR_EVENTSERVER_RESPONSE_TIMEOUT_INSECS	DTX_EVENTSERVER_RESPONSE_TIMEOUT_INSECS
MERCATOR_SSL_DEBUG_FILE	DTX_SSL_DEBUG_FILE
MERCATOR_SSL_DEBUG_FILE_VERBOSE	DTX_SSL_DEBUG_FILE_VERBOSE
MERCATOR_SSL_ERROR_FILE	DTX_SSL_ERROR_FILE
MERCHOME	DTXHOME
MERCPI_LOG	DTXPI_LOG
MERC_CONTROL_PORT	DTX_CONTROL_PORT
MERC_MONITOR_PORT	DTX_MONITOR_PORT
MERC_STATUS_PORT	DTX_STATUS_PORT

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