



TXSeries for Multiplatforms V8.1

Enhanced Platform Coverage and Integration, Improved Operational Efficiency and Serviceability

IBM® TXSeries for Multiplatforms is a distributed Online Transaction Processing (OLTP) environment for business critical, mixed language applications. It is widely used for integrating data and applications between distributed solutions and enterprise systems. It is also used for the deployment of high-performance, distributed, IBM CICS® applications written in COBOL, C, C++, Java™, and PL/I languages. TXSeries for Multiplatforms integrates well into a mixed language, multiplatform, service-oriented architecture (SOA) solution. Uniquely, TXSeries is also designed to allow you to scale up to CICS TS on the mainframe when your business grows.

This new version, TXSeries for Multiplatforms V8.1, addresses a number of customer requirements. It delivers features in the areas of platform coverage, operational efficiency and enterprise integration. In addition, TXSeries serviceability is improved with additional problem determination tools.

New features

Key features supported by TXSeries for Multiplatforms include:

Enhanced platform coverage: TXSeries widens its platform support with the addition of Linux on x86 architecture. Specifically, Red Hat Enterprise Linux and SUSE Linux Enterprise Server are now supported. With this support, TXSeries brings a mature and proven transactional run time for running business critical applications written in COBOL, C, C++, Java, and PL/I to Linux platforms.

Improved operational efficiency

- Provides **Real-time monitoring** capability using IBM Tivoli® Monitoring infrastructure. This feature allows administrators to monitor an entire TXSeries deployment from a single Tivoli Enterprise Portal.
- The Transaction Class (**TRANCLASS**) feature helps to optimize the usage of CICS resources by providing a facility to classify transactions into multiple groups or transaction classes.
- Networking infrastructure is enhanced to support the **IPv6 dual stack**.
- Eliminates the restriction of a maximum, eight-character length for passwords. This allows customers to comply with security policies that demand **stronger passwords**.

- A new **transaction tracking facility** is provided that helps to track transactions spanning across multiple CICS regions.
- Extends the **user exit functionality** to define more than one user program to be associated for a given user exit.
- Brings in a number of enhancements to the **Workload Management (WLM)** component of TXSeries including, simplified configuration, install verification program sample, and improved health monitoring.
- Simplifies the **administration** on UNIX platforms by allowing **non-root users** to perform TXSeries administrative tasks. Users in the 'cics' operating system group can administer a TXSeries system.
- Uses the IBM WebSphere® Application Server **Liberty profile** as the backbone for its web-based infrastructure.

Enhanced enterprise integration

- Integrates with WebSphere Message Queue (MQ) with support for CKTI transaction. CKTI is a WebSphere MQ trigger monitor that initiates transactions in TXSeries, based on trigger conditions set in WebSphere MQ.
- Supports in-bound web services. Using this feature applications written in COBOL, C, and PL/I can be exposed as web services. This enables rapid and straightforward integration of TXSeries applications with other applications in an enterprise SOA environment. Integrating TXSeries applications into an SOA environment enhances the ability to reuse existing application assets and help to keep operational costs to a minimum.

Serviceability enhancements

TXSeries for Multiplatforms V8.1 further enhances serviceability with the introduction of capabilities such as:

- Hang detection tooling. This tooling monitors the Stand Alone Remote Procedure Call Daemon (SARPCD) to check shared memory usage
- API for IP Interconnectivity (IPIC) connection management.
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These features enable administrators to monitor their TXSeries systems and keep them running healthily.

Key Benefits

- Delivers simplified and powerful distributed transaction processing with flexibility in deployment choice across AIX®, Microsoft Windows, Linux, Solaris and HP-UX platforms.
- Applications can scale up to CICS TS on the mainframe as businesses needs grow.
- Allows reuse existing CICS applications and application programming skill sets.
- Delivers simplified interoperability, improved system resilience, and problem determination.
- Allows you to run and extend CICS applications to the web and web services.
- Enables an end-to-end solutions through integration with WebSphere Application Server, CICS TG, and WebSphere MQ.

Unique Differentiators

- TXSeries allows your customers to scale up to CICS TS on the mainframe, if their business needs grow.
- Integrates between data and applications in distributed solutions and enterprise systems, which include CICS, IMS™, DB2®, Oracle, and WebSphere MQ.
- Extends CICS applications to the web and mobile using CICS TG and WebSphere Application Server.
- Extends CICS applications to integrate in an SOA architecture using web services.
- Reuses existing CICS applications and application programming skill sets in your customers' organization, consistent with corporate distributed platform policy.

Available now

Announced October 8th 2013, TXSeries for Multiplatforms is available electronically from 29th November 2013. For more details, refer to Software Announcement 58888.



More Details

Operating systems requirements:

- AIX V6.1 TL8 or AIX 7.1 TL2
- Microsoft Windows users: Microsoft Windows Server 2008 or Microsoft Windows Server 2012
- Linux users: Red Hat Enterprise Linux V5.9, V6.3 or SUSE Linux Enterprise V11 SP 2
- Solaris users: SUN Solaris 10 or 11.1, running on SPARC processors
- HP-UX users: HP-UX 11iV3

Software requirements:

- CICS TG for Multiplatforms V9
- IBM Communications Server V6.4.0.4
- WebSphere MQ V7.5
- SNAP-IX Data connection V7
- HP SNAPplus2 R.7.11.31.100

Databases:

- DB2 V9.7, V10.1
- Microsoft SQL Server V2012
- Informix® Dynamic Server V3.7
- Oracle V11.2.0.3
- Sybase Adaptive Server Enterprise V15.7

Languages supported:

- COBOL Set for AIX V4.1.1
- PL/I set for AIX V3.1
- XL C/C++ Enterprise Edition V11, V12 for AIX
- Oracle Solaris Studio 12.2
- Micro Focus Server Express COBOL V5.1 WP7
- Java 2 Runtime Environment, Standard Edition 7.0, SR5
- GNU C Compiler gcc/g++ V4.1.2
- Sun Studio Compiler Collection V12 update 1
- Microsoft Visual Studio Enterprise Edition Version 2012
- HP C/aC++ A.06.27.03

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