

IBM TXSeries for Multiplatforms V8.1

Host, extend, and reuse COBOL, C, C++, and PL/I application assets

Highlights

- Delivers the next generation of distributed transaction processing on IBM® AIX®, Linux, Microsoft Windows, HP-UX on Integrity platform and Sun Solaris platforms.
- Provides an excellent deployment environment for high-performance, business critical, transactional applications on distributed platforms.
- Offers significant features that enhance system resilience, serviceability, problem determination, and application development tooling.
- Provides real-time monitoring capability using IBM Tivoli® Monitoring infrastructure. This feature allows administrators to monitor entire TXSeries deployment from a single Tivoli Enterprise Portal.
- Delivers major integration and connectivity, enhancements, enabling simplified interoperability with CICS® Transaction Server (CICS TS) and CICS Transaction Gateway (CICSTG) on standard protocols.
- Enables scaling up to centralized CICS Transaction Server for z/OS® as your business needs evolve.

A transaction-processing monitor is a key component of a healthy corporate IT system. It manages and augments the transactional processes that keep your revenue flowing. You might need to process hundreds of thousands of customer requests every day. You might need to automate an existing manual business process to increase your business effectiveness. Or you might need to design an innovative IT-based service that can be reused throughout your organization. Whatever your business needs, a transaction processing monitor can keep your organization operating at the optimum level.

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.

IBM TXSeries for Multiplatforms enables you to maximize the effectiveness of applications and employees skilled in these languages, across AIX, Microsoft Windows, Sun Solaris, HP-UX on Integrity platform. As a distributed transaction server, and a rapid-deployment, transactional integration platform, TXSeries has, for more than a decade, delivered high performance transaction services in a modern, reusable, critical applications environment.



You can use TXSeries to:

- Host business critical transactional CICS applications on distributed platforms in stand-alone deployments.
- Integrate data and applications in distributed solutions and enterprise systems, including CICS, IBM IMS™, IBM DB2®, and IBM WebSphere® MQ.
- Run and extend CICS applications as web services using IBM CICS Transaction Gateway and IBM WebSphere Application Server.
- Reuse existing CICS applications and application programming skill sets in your organization, consistent with corporate distributed-platform policy.
- Develop, test, and diagnose CICS applications using COBOL, PL/I, C, and C++ for deployment to IBM CICS Transaction Server.

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.

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.
- Introduces a number of enhancements to the Workload Management (WLM) component of TXSeries, including,

simplified configuration, an 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 now administer a TXSeries system.
- Uses the IBM WebSphere Application Server Liberty profile as the backbone for its web-based infrastructure.

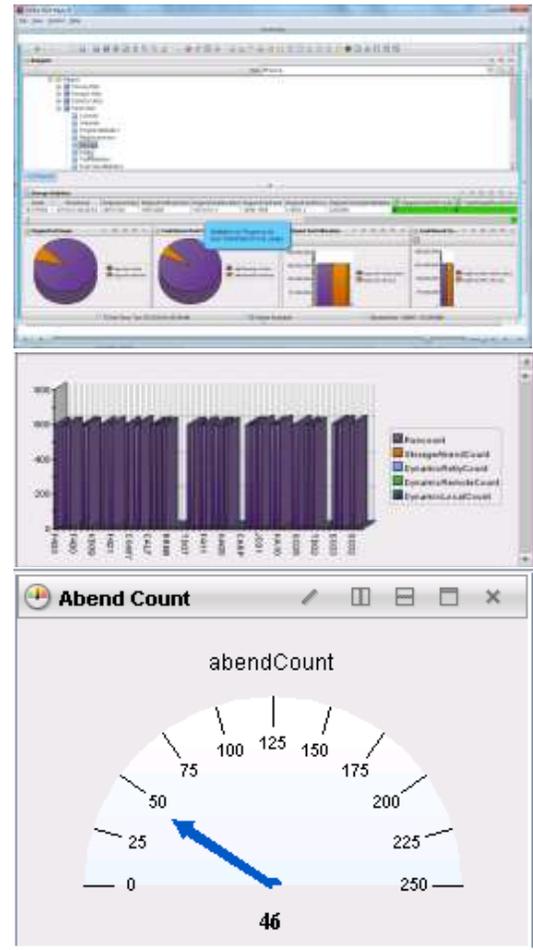


Figure 1: TXSeries offers real-time monitoring facility using IBM Tivoli Monitoring Infrastructure

Enhances Enterprise Integration

- Integrates with WebSphere Message Queue (MQ), with support for CKTI transactions. 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.

Provides 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.

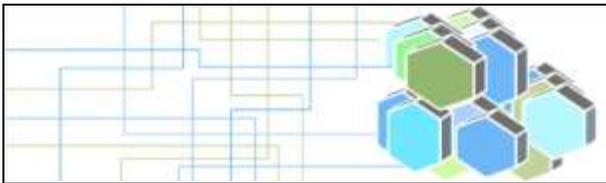
These features enable administrators to monitor their TXSeries systems and keep them running at optimal levels.

For More Information

IBM TXSeries for Multiplatforms, Version 8.1 delivers enhanced platform coverage and integration, and improved operational efficiency and serviceability.

To learn more about TXSeries transaction-management solutions, contact your IBM representative or IBM Business Partner, or visit:

www-03.ibm.com/software/products/us/en/txseries/



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TXSeries for Multiplatforms-At a Glance

Operating System 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:

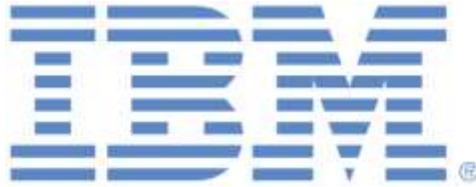
- CICS TG for Multiplatforms V9
- IBM Communications Server V6.4.0.4
- WebSphere MQ V7.5
- SNAP-IX Data connection V7
- HP SNAPPlus2 R.7.11.31.100

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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