

TXSeries for Multiplatforms



Release Notes

Version 6.2

TXSeries for Multiplatforms



Release Notes

Version 6.2

Note

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 39.

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About this book

The *TXSeries for Multiplatforms Release Notes* provide release-specific information about TXSeries® for Multiplatforms for all supported platforms. This document summarizes the changes and known defects that are likely to affect TXSeries for Multiplatforms users. It also provides information about supported third-party products and about defects that have been fixed since the previous release of TXSeries for Multiplatforms.

Who should read this book

This document is for anyone who wants to install, configure, or use TXSeries for Multiplatforms, and who is planning to upgrade to TXSeries for Multiplatforms Version 6.2 from the previous versions.

Document organization

This document has the following organization:

- Chapter 1, “Contents of the IBM TXSeries for Multiplatforms software CD-ROM,” on page 1 describes the contents of the IBM® TXSeries for Multiplatforms software CD-ROM.
- Chapter 2, “New and changed features,” on page 3 describes the new features and changes included in TXSeries for Multiplatforms Version 6.2. It also describes the changes made to the TXSeries documentation set.
- Chapter 3, “Supported IBM and third-party products,” on page 13 lists the IBM and third-party software products supported for use with TXSeries for Multiplatforms Version 6.2.
- Chapter 4, “Important notes and known problems,” on page 15 contains important information about installing and using TXSeries for Multiplatforms Version 6.2 and summarizes the known defects and limitations. Workarounds are presented when available.
- “Fixed defects in TXSeries for Multiplatforms Version 6.1” on page 30 summarizes the defects that have been fixed since the last release of TXSeries.
- Chapter 6, “TXSeries for Multiplatforms documentation,” on page 35 contains information about the TXSeries documentation set. It also describes other sources of information for TXSeries, and explains how to send your comments on the documentation.

Chapter 1. Contents of the IBM TXSeries for Multiplatforms software CD-ROM

This chapter describes the contents of the IBM TXSeries for Multiplatforms software CD-ROM.

Note: The Java™ V1.5+SR2 SDK is included on the TXSeries for Multiplatforms software CD-ROM as a convenience to customers. For support and maintenance information for the SDK, see the Java technology Web site:

- www.ibm.com/developerworks/java/jdk/index.html

The IBM TXSeries for Multiplatforms software CD-ROM

The root directory of the IBM TXSeries for Multiplatforms software CD-ROM contains the TXSeries readme file (*README.lang.htm*, where *lang* is the language in which you are installing TXSeries) and the installable binary image file that comprises the TXSeries for Multiplatforms software. Refer to the *TXSeries for Multiplatforms Installation Guide* for a complete description of the product image included on the CD-ROM and instructions for installing it.

The software CD-ROM also contains the following directories:

- \license—Contains License Agreement information for TXSeries.
- \java— Contains the IBM Software Developer's Kit (SDK), Version 1.5+SR2.
- \TPM-Driver— Contains IBM Tivoli® Provisioning Manager automation package.

Chapter 2. New and changed features

This chapter contains information about the new features and changes that have occurred in TXSeries for Multiplatforms Version 6.2, including changes made to the TXSeries 6.2 documentation set.

Unless otherwise noted, the information in this chapter pertains to TXSeries V6.2 for all supported platforms.

This chapter also contains information about the new features and changes that occurred in TXSeries for Multiplatforms Version 6.0, which was available on the AIX® platform only. These features and changes of TXSeries V6.0 were included in TXSeries for Multiplatforms Version 6.1 for the HP-UX PA-RISC, HP-UX on HP Integrity Platform, Solaris, and Windows® platforms.

New and changed features in TXSeries for Multiplatforms Version 6.2

This section describes new and changed features in TXSeries for Multiplatforms Version 6.2.

TXSeries for Multiplatforms Version 6.2 is built on six core themes listed below. All CICS® users, especially system administrators, will benefit immensely from these changes.

- Improved administration
- Enhanced reliability and availability
- Enhanced usability
- Improved serviceability
- Enhanced API and SPI
- Simplified operations

Improved administration

TXSeries V6.2 introduces a number of features for improved administration.

Addition of monitoring in the Web based Administration Console

This release of TXSeries has added a new monitoring feature in the Web based Administration Console that allows you to define and configure a monitoring profile including specific transactions, programs and fields. A new facility is also available for viewing the generated monitoring data graphically.

Simplified configuration for TXSeries Workload Management

A set of new command-line tools have been introduced in this release of TXSeries that help you to configure the TXSeries Work Load Management (WLM) utility. This configuration of WLM is also integrated with the Web based Administration Console. You can use either the command-line tools or the Web based Administration Console for configuring WLM. WLM is available only on AIX platform.

Other enhancements to the Web based Administration Console

This release of TXSeries also introduces other enhancements to the Web based Administration Console that allow you to perform the following tasks:

- **View Symrecs and CSMT logs**

In addition to console logs, you can now view CSMT and symrecs logs from the Web based Administration Console.

- **Edit the environment file**

You can now edit the environment file of a CICS region from the Web based Administration Console.

- **Search between dates**

You can search the console logs for a set of messages between two specified dates or between a specified time.

- **Run arbitrary CICS commands**

You can run any of the CICS commands from the Web based Administration Console.

Note: This feature is not supported for commands that run in the interactive mode.

Enhanced reliability and availability

TXSeries for Multiplatforms Version 6.2 comes with a number of improvements to provide enhanced reliability and availability.

Improvements to the forcepurge mechanism

The forcepurge mechanism available in TXSeries has been vastly improved in this release. The new design allows better synchronization and takes care of critical scenarios before abnormally terminating an application server process. This ensures better handling of client timeouts and minimizes abnormal region shutdowns.

Improvements to the transaction recovery process

Improvements to the transaction recovery process introduced in this release, make regions resilient to abnormal shutdowns caused by asynchronously aborted tasks. Task aborts are now handled better with improved synchronization across threads in an application server. Only application server processes are brought down in the event of an asynchronously aborted task and the transaction recovers to a known state after the application server is restarted. Other transactions in the region continue to run unaffected.

SafetyLevel=normal feature extended to Solaris

From this release, SafetyLevel=normal, is supported on Solaris. This feature is now available in TXSeries on all platforms except Microsoft® Windows.

Enhanced usability

TXSeries for Multiplatforms Version 6.2 comes with a number of improvements to provide enhanced reliability and availability.

Single user ID across CICS servers

From this release onwards, you do not have to create and maintain multiple user IDs for different CICS servers on any platform. All CICS servers, such as SFS, PPC Gateway and CICS regions can now use a single user ID, which is **cics**.

Removal of kernel extensions requirement on AIX

This release of TXSeries removes the overhead of installing kernel extensions for TXSeries on AIX. Instead it uses a standard thread library for interprocess communication on AIX.

Ability to set maximum size for extrapartition TDQs

You can now control the size of an extrapartition TDQ by specifying a maximum size. On reaching the maximum size, the file is backed up with a timestamp added to the name of the file and the original file is reset. This enables better management of application logs.

Support for mixed case password

This release of TXSeries supports the use of mixed case passwords for CICS user IDs. This provides you better interoperability between TXSeries and CICS Transaction Server.

Mixed case password supported for both CICS user authentication is performed by checking the credentials in User Definitions (UD stanza file) and authentication by using EAM (External Authentication Manager).

PrinterComp option

The PrinterComp option introduced in this release of TXSeries, allows you to make full use of the width of a printer. This option is specific to a transaction and works when the destination is a 3270 printer. If this option is not set, SEND TEXT reserves the first character of each line for control information.

Improved serviceability

TXSeries for Multiplatforms Version 6.2 has introduced a number of tools to improve serviceability.

cicsedump tool

cicsedump is a new external dump tool introduced in this release that collects system dump for a CICS region. cicsedump collects information after a region hangs.

Note: This tool should be used only on the recommendation of the Support team.

CICSIPC dump tool

cipc_dump, a new dump tool available in this release, can be used to get a snapshot of the CICSIPC data structures.

Native debugger support for CICS application debugging

With this release of TXSeries, you can now use native debuggers available in the operating systems to debug CICS applications written in C language. TXSeries can be configured to use debuggers through the supplied CDCN transaction. This feature is supported on AIX, HP-UX on PA-RISC, HP-UX on HP Integrity platform and Solaris operating systems. This release, for the first time, introduces a CICS application debugging tool on Solaris and HP-UX operating systems.

Enhanced API and SPI

TXSeries for Multiplatforms Version 6.2 provides a number of API and SPI enhancements.

EXTRACT TCPIP

The EXTRACT TCPIP command introduced in this release enables customer applications to identify the incoming CICS Universal Client (CUC) and CICS Transaction Gateway (CTG) client connections.

ABEND NODUMP

The new NODUMP option supported with ABEND API allows you to request an ABEND without causing a dump to be taken.

New CHANGE TASK API

Using the new CHANGE TASK API, a task can change its priority. In TXSeries, changing the priority of a running task is not possible because of architectural constraints. However, INQUIRE TASK will show the changed priority.

New DUMP TRANSACTION API

The DUMP TRANSACTION API, new to this release, causes a transaction to dump and works in the same way as the DUMP API.

SET PROGRAM PHASEIN

PHASEIN is a new option to SET PROGRAM. You can use this option to refresh a program. It works in the same way as SET PROGRAM NEWCOPY.

Simplified operations

TXSeries for Multiplatforms Version 6.2 comes with a number of features that simplify operations.

Simplified connections to ORACLE database

To use Oracle with TXSeries in the dynamic XA mode, you are no longer required to rebuild the libclntsh file by editing the genclntsh file. In this release, a new script has been provided which helps you to avoid manually editing the genclntsh file.

TXSeries install with IBM Tivoli Provisioning Manager

This release of TXSeries provides a facility to install TXSeries using the Tivoli Provisioning Manager (TPM). It also automates the process of installing products and fixes on multiple machines.

TXSeries fix installer and uninstaller

With this release of TXSeries, you can now install and uninstall product fixes using a single tool on all supported operating systems.

Migration

Guidelines for migrating TXSeries data to TXSeries for Multiplatforms Version 6.2 from earlier versions are available in the TXSeries for Multiplatforms Installation Guide. This release allows you to migrate from TXSeries for Multiplatforms Version 5.0 onwards to the current release.

Simplified documentation

Major revisions to the documentation library provide a much clearer product overview, leading to faster and easier product deployment and administration. This documentation library has been fully incorporated into the standard Eclipse based information center, which provides many benefits including the ability to search all installed Eclipse based IBM information centers in one search.

New and changed features in TXSeries for Multiplatforms Version 6.1

This section describes new and changed features in TXSeries for Multiplatforms Version 6.1.

TXSeries for Multiplatforms Version 6.1 is built on four core themes, listed below. All CICS users, especially system administrators, will benefit immensely from these changes.

- Platform consistency
- Ease of use and simplification
- Application development
- Reliability and availability

Platform consistency

TXSeries for Multiplatforms Version 6.0, provided a drastically simplified CICS product, which was available only on the AIX platform. TXSeries for Multiplatforms Version 6.1 extends this code base onto other supported platforms. TXSeries for Multiplatforms Version 6.1 is available and supported now on AIX, HP-UX PA-RISC, HP-UX on HP Integrity Platform, Solaris, and Windows.

This release is tested and supported with the latest IBM and third party software products like compilers, databases and communication servers.

Ease of use and simplification

The following features make TXSeries for Multiplatforms simpler, and easier to use.

ISMP based installer and installation enhancements

TXSeries for Multiplatforms Version 6.1 is packaged with InstallShield for Multiplatforms (ISMP) on all supported platforms. This gives customers a uniform install experience on all platforms. Apart from the GUI based install, this installer also supports console based installation as well as silent installation.

This release also provides an option to upgrade the TXSeries installation from Version 6.0 to Version 6.1.

Enhancements made to the installer now allow the creation of a default region at the end of the installation process, which enables users to become productive quickly.

New Web based Administration Console

TXSeries for Multiplatforms Version 6.1 comes with a new, powerful Web based Administration Console on all platforms. The new Administration Console replaces the existing tsconfig utility on the Windows platform making administrative tasks consistent between platforms.

The new Administration Console, being Web based, can run on any supported browser (Internet Explorer 5.0 or Firefox 1.0 and above). This allows you to remotely monitor and administer a TXSeries CICS region.

Some of the highlights of the new tool are:

- True remote administration and configuration of CICS regions.
- The facility to create, start, stop and destroy regions, SFS servers and PPC gateways.
- The ability to differentiate messages in the console logs into errors, warnings and information messages.
- The facility to view details of errors when errors are encountered in console logs.
- The facility to administer and configure the regions in any of the supported languages.

- Out-of-the-box functionality - no configuration is required to get the console working.

New cicserr tool

A new tool called **cicserr** is introduced in this version. This helps customers to quickly check the details of errors or abends they encounter. The tool provides details of the errors with possible actions that could resolve the issue.

Enhanced cicscp command

This release of TXSeries enhances the CICS command line administration utility **cicscp** substantially. Most notable enhancement is the addition of a new status option. With this option, customers can find the status (for example, stopped or running) of CICS regions, SFS servers and PPC gateways.

Application development

This section discusses the applications that can be developed using TXSeries for Multiplatforms.

Application development with WebSphere Developer for IBM System z™

TXSeries for Multiplatforms Version 6.1 on Windows comes with a new coprocessor interface for compiling IBM COBOL programs. This allows a future version of WebSphere® Developer for Z Series (WD4Z) to integrate with TXSeries for creating and compiling IBM COBOL programs.

Support for developing TXSeries Java applications

TXSeries for Multiplatforms Version 6.1 on HP-UX on HP Integrity Platform provides support for developing and deploying CICS applications using Java.

Reliability and availability

The following features improve the reliability and availability of TXSeries.

XA failure resilience

TXSeries for Multiplatforms Version 6.1 provides enhanced availability through the new XA failure resilience feature. With this, when an XA connected resource manager becomes problematic, the connected CICS region will stay up and remain available for transactions that do not depend on that resource manager. When the problem resource manager returns to a functional state, the CICS region will reconnect to it and resume normal operation.

PPC-TCP communication across machines

TXSeries for Multiplatforms Version 6.1 lifts the limitation put in the previous release (Version 6.0) on the use of PPC-TCP protocol for ISC over TCP/IP. Now customers can use PPC-TCP for ISC across TXSeries CICS regions residing on different machines.

This feature also introduces a new process on Open Systems platforms that is used by CICS for its operations. This new process is called **sarpcd** and this is started as appropriate by the **cicscp** command. This process is used for RPC communications and is mandatory for correct functioning of TXSeries.

A new process called **cicsgc** was introduced in the previous release of TXSeries (Version 6.0). On Open Systems platforms, the function of this process is now

internalized into other CICS processes, hence this process is not present any more on Open Systems platforms. However, on Windows platform a new `cicsgc` process is introduced by this release.

Migration

Guidelines for migrating TXSeries data to TXSeries for Multiplatforms Version 6.1 from earlier versions are available in the *TXSeries for Multiplatforms Installation Guide*. This release allows customers to migrate from TXSeries for Multiplatforms Version 5.0 onwards to the current release.

Simplified documentation

Major revision to the documentation library provides a much clearer product overview, leading to faster and easier product deployment and administration. This documentation library has been fully incorporated into the standard Eclipse based information center, which provides many benefits including the ability to search all installed Eclipse based IBM information centers in one search.

The following new books have been added to the library:

- *TXSeries for Multiplatforms Administration Guide*.

This book describes how to administer your CICS systems on all supported platforms, using both the new Web based Administration Console and traditional CICS commands. It replaces the platform specific *Administration Guide for Open Systems* and *Administration Guide for Windows* of previous versions.

- *TXSeries for Multiplatforms Installation Guide*.

This book reflects the simplified ISMP installation, and covers installation on all supported platforms. It replaces the platform specific *Planning and Installation Guides* of previous versions.

New and changed features in TXSeries for Multiplatforms Version 6.0

This section describes new and changed features in TXSeries for Multiplatforms Version 6.0.

The core theme of TXSeries for Multiplatforms Version 6.0 is simplification. All CICS users, especially system administrators, can now benefit from a significantly simplified environment enabling them to be more productive.

DCE removal

The DCE technology that underpinned previous versions of TXSeries for Multiplatforms has now been removed. CICS processes now communicate using secure shared memory, which enhances performance and security with no configuration or administration required.

Encina integration

Another core part of the product simplification is the Encina[®] component integration. Installing Encina as a prerequisite for using CICS has been removed and is no longer required or supplied with TXSeries for Multiplatforms. All Encina components that are required by the CICS Server are integrated with TXSeries for Multiplatforms and are installed while installing CICS.

Enhancements to EAM support

Security handling has also been simplified when using TXSeries for Multiplatforms in conjunction with a mainframe, by introducing a new External Authentication

Manager (EAM) module that uses the Lightweight Directory Access Protocol (LDAP) to integrate with RACF®. All users of the system can now be centrally defined and maintained in a RACF repository.

Changes to CICS client support

Users are recommended to use the CICS Universal Client (CUC) as a TXSeries client in production systems. The CUC is bundled with TXSeries for Multiplatforms. RPC based ECI & EPI programming are no longer supported.

For information about the CICS Universal Client, see the CICS Universal Client Information Center, available from <http://www.ibm.com/cics/cuc/library>.

Simplified ISMP based installer

Installation and version-to-version migration have now been significantly enhanced by using Install Shield Multiplatforms (ISMP) as the installer on all platforms. This simplifies the process of installation by using an industry standard installation program, allowing quick and easy customization of the installation. A default region configuration option has been added to the installer program. The CICS Universal Client is also bundled with TXSeries for Multiplatforms Version 6.0 installer. See the *TXSeries for Multiplatforms Installation Guide* for details.

Migration

Guidelines for migration to TXSeries for Multiplatforms Version 6.0 from earlier versions are available in the *TXSeries for Multiplatforms Installation Guide*.

Updated specified operating environment

TXSeries for Multiplatforms Version 6.0 extends support for the most recent versions of other products that are commonly used by TXSeries customers, including databases, communications subsystems and system compilers for all supported programming languages.

ACUCOBOL-GT support

Support is added for Acucorp open systems COBOL, ACUCOBOL-GT. ACUCOBOL-GT is a COBOL development system that includes a compiler, a source-level interactive debugger, and nearly a dozen support utilities. ACUCOBOL-GT lets you write a program once, and run it in any other TXSeries platform without recompiling. See the specified operating environment document on the TXSeries support page for the most up-to-date information.

Diagnostic facility

Other enhancements include a new system function diagnostic facility that provides additional internal state information to that which was previously available. This will help with problem determination by assisting IBM support representatives to remotely diagnose potential problems.

POSIX Draft 10 compliance

TXSeries for Multiplatforms Version 6.0 is POSIX draft 10 compliant.

Simplified documentation

Major revision to the documentation library provides a much clearer product overview, leading to faster and easier product deployment and administration. This documentation library has been fully incorporated into the standard Eclipse based

information center, which provides many benefits including the ability to search all installed Eclipse based IBM information centers in one search.

Changes to the TXSeries for Multiplatforms documentation set

This section summarizes the changes that have been made to the TXSeries for Multiplatforms documentation set since the 5.1 release. For a complete description of the documentation set, refer to the *TXSeries for Multiplatforms Installation Guide*.

All the Encina specific books have been removed from the library. All information about Encina components that are required by the CICS Server is integrated into the CICS books. In addition, the following new books have been added to the library:

- *TXSeries for Multiplatforms Installation Guide*.

This book reflects the simplified ISMP installation, and covers installation on all supported platforms. It replaces the platform specific *Planning and Installation Guides* of previous versions.

- *TXSeries for Multiplatforms SFS Server and PPC Gateway Server: Advanced Administration*.

This book provides guidance and reference information about administering the CICS SFS server and the CICS PPC Gateway server.

Chapter 3. Supported IBM and third-party products

IBM TXSeries for Multiplatforms Version 6.2 is supported for use with a variety of IBM and third-party software products. Refer to the Web page at <http://www.ibm.com/software/htp/cics/txseries/requirements.html> for a complete list of the names and version numbers of all IBM and third-party products supported for use with TXSeries for Multiplatforms. Note that the list of supported products is updated periodically to show the most recent information.

IBM adheres to its published interfaces, in addition to the published interfaces of its partners. Therefore, IBM expects TXSeries for Multiplatforms to work smoothly with all supported third-party products. If you experience unanticipated interactions when using TXSeries for Multiplatforms with a supported third-party product, contact a support representative from IBM and the third-party product vendor, as appropriate.

Chapter 4. Important notes and known problems

This chapter contains important information about using TXSeries for Multiplatforms, as known at the time these Release Notes were published. For the latest important information about TXSeries for Multiplatforms, see the Support Flash Release notes on the TXSeries support web page at <http://www.ibm.com/software/htp/txseries/support/>.

Unless otherwise noted, the information in this chapter applies to TXSeries for Multiplatforms on all supported platforms.

Data corruption during intersystem communication

When using intersystem communication between two TXSeries regions on AIX and Windows, with **TemplateDefined** set to **yes**, install the fileset, bos.iconv.ucs.pc on your AIX machine to avoid data corruption.

Change in EPI event sequence

In this release, there is a change in the EPI event sequence that is sent to the client, when a terminal-based task is forcepurged. The client might only get a CICS_EPI_EVENT_END_TERM instead of a CICS_EPI_EVENT_END_TRAN and then a CICS_EPI_EVENT_END_TERM.

Interoperability between TXSeries V6.2 on Windows VISTA with TXSeries V5.1 using PPC-TCP

A CICS region on TXSeries for Multiplatforms Version 6.2 on Windows VISTA cannot communicate with a CICS region on TXSeries for Multiplatforms Version 5.1 on all platforms. This is because Windows VISTA does not support the use of UDP protocol sequence with RPC.

cicsmkcobol displays warning messages on HP-UX 11iv3 (HP Integrity Platform)

When running cicsmkcobol on HP-UX 11iv3 on HP Integrity Platform, the following warning messages are displayed which can be ignored.

```
# cicsmkcobol
/var/tmp/cobAAA028404/ldtab.s:94: warning 4018: invalid size
/var/tmp/cobAAA028404/ldtab.s:142: warning 4018: invalid size
```

cicslterm client does not work on Windows VISTA

cicslterm client does not work on Windows VISTA. Use the CICS Universal Client (CUC) supplied cicsterm as an alternative.

Ownership of logical volumes when migrating to TXSeries V6.2

Change the ownership of existing logical volumes of the SFS server and PPC Gateway server to user **cics** when migrating to TXSeries V6.2.

HP-UX (PA-RISC): COBOL transactions fail when SafetyLevel is normal

On HP-UX (PA-RISC) platform, COBOL transactions fail when the **SafetyLevel** attribute in the RD stanza is set to **normal**.

PL/I applications fail to compile on AIX

On AIX, PL/I applications fail to compile and the following error message is displayed:

```
# cicstcl -elIBMPLI pts4.pli
ERZ004049I/0096: Running the compile and link step: 'pli -I/usr/lpp/cics/include
-qsystem=CICS -qpp=CICS=edf :nodebug:nosource:noprint:MACRO -o pts4.ibmpli
-bI:/usr/lpp/cics/lib/cicsprIBMPLI.exp -eplicics -L/usr/lpp/cics/lib
-lsarpc -lpthreads -lplishr_r -lc_r pts4.pli.pli'
"pts4.pli", line 1.2: IBM1854I S Fetch of the CICS preprocessor failed
with ONCODE= 9250.
```

Note: The compilation ends without generating an executable, only *.lst are generated.

This is a known problem with PL/I version 2.0. PMR 15321,999,744 has been opened with the PL/I team.

cicssda fails to start in DBCS locales on HP-UX (PA-RISC and HP Integrity Platform) platforms

On HP-UX platforms, cicssda fails to start in DBCS locales. This is identified as a problem with the HP XServer. Contact your IBM support representative to know the status of this functionality.

Date and time format change in log files

The date format in console, symrecs and other logs such as CSMT.out has been changed in this release to the MM/DD/YY format. However, the time format of the string remains the same as for the previous releases of TXSeries. Date and time based console file search assumes this new date format. If time is not entered while searching, it defaults to 00:00:00:0000. For the same reason, the date and time based search might fail with console files created by the previous versions of TXSeries.

LWI startup error messages

When LWI is started, it displays the following error messages which can be ignored. If LWI is started in the console mode, the error messages will be seen in the console. Or else the messages will be recorded in \$CICS_PATH/wui/logs/startup.log file.

```
2007/11/14 15:39:25.499 SEVERE Web Container : com.ibm.ws.http.HttpTransport :
CWPWC0004E: Error ocured while creating/initializing transport socket.
java.net.BindException: The socket name is already in use.
Thread[Thread-2,5,main] ::class.method=com.ibm.ejs.ras.Tr.error() ::thread=Thread-2
::loggername=com.ibm.ejs.ras
```

```
2007/11/14 15:39:30.569 SEVERE Web Container : com.ibm.pvc.internal.
webcontainer.trackers.XMLParserServiceTracker : CWPWC0003E: Error occurred
while initializing transport. java.lang.NullPointerException
Thread[Thread-2,5,main] ::class.method=com.ibm.ejs.ras.Tr.error()
::thread=Thread-2 ::loggername=com.ibm.ejs.ras
```

```
ALR1325I: The lightweight runtime has started.
```

```

2007/11/14 15:39:31.925 WARNING Webcontainer :
com.ibm.ws.webcontainer.webapp.WebApp :Error while adding servlet mapping -->
/* Please set fileServingEnabled=false in the ibm-web-ext.xmi file which
is under WEB-INF folder. Thread[Thread-2,5,main]
::class.method=com.ibm.ejs.ras.Tr.warning() ::thread=Thread-2
::loggername=com.ibm.ejs.ras
2007/11/14 15:39:37.008 WARNING Webcontainer :
com.ibm.ws.webcontainer.webapp.WebApp : Error while adding servlet mapping -->
/* Please set fileServingEnabled=false in the
ibm-web-ext.xmi file which is under WEB-INF folder.
Thread[Thread-2,5,main] :: class.method=com.ibm.ejs.ras.Tr.warning()
::thread=Thread-2 ::loggername=com.ibm.ejs.ras

```

Known limitations of WLM configuration

- Using the TXSeries Administration Console, WLM configuration files can be created only in the default location.
- In TXSeries, WLM configuration is available in English only. This is applicable to both the **cicswlmcfg** command as well as WLM in the TXSeries Administration Console.
- ERZ messages (error and warning messages) do not have help links when the output is generated by running the **cicswlmcfg** command. Also, these message codes are not supported with cicserr tool.

Known limitations of TXSeries Administration Console based monitoring

- All Web based monitoring related data will be overwritten when the product is re-installed. To preserve the old monitoring data, perform the following steps:
 1. Before uninstalling the product, create a backup of the directory `$CICS_PATH/wui/runtime/core/DATABASE`. For example,

```
cp -r /usr/lpp/cics/wui/runtime/core/DATABASE /tmp/DATABASE
```
 2. After installing TXSeries V6.2 , remove the `$CICS_PATH/wui/runtime/core/DATABASE` directory.

```
rm -rf /usr/lpp/cics/wui/runtime/core/DATABASE
```
 3. Copy the backup directory to the same location.

```
mv /tmp/DATABASE /usr/lpp/cics/wui/runtime/core
```
- Whenever the monitoring profile form is submitted by a user, TXSeries Administration Console recreates the profile details. This happens even if the user has not made any changes in the profile. As a result, the usual *Nothing to update* message will not be visible in monitor profile updates.
- When the monitored data is more, the browser might take a long time to complete the operation and during this time, if the system memory is not sufficient, the user might get error 500 in the browser.
- On Windows platform, comma separated expressions for specifying the resources to be monitored through TXSeries Administration Console do not work. Only one expression for specifying the resources must be provided. If there is no change in the value of any attribute during a monitoring session, you will not see any curve in the graphical representation of the data. The monitoring session time and the attribute values are always divided into ten equal slots, while drawing the curve. The origin of the X-Y axis is decided by the monitoring start time on the X-axis and minimum value of the attribute on the Y-axis. The scale on the Y axis is calculated using the expression:
$$\text{scale} = (\text{maximum value of attribute} - \text{minimum value of attribute}) / 10$$

PPC Gateway server does not work during intersystem communication between TXseries V6.2 and TXseries V5.1

The PPC Gateway server crashes while interoperating between TXSeries V6.2 and TXSeries V5.1 servers or vice versa. This was observed during intersystem communication.

Known limitations of cicslterm

cicslterm, which is used to connect to a region in the local machine has the following limitations in TXSeries V6.2:

- **cicslterm** hangs on executing transactions such as CESN, CRTE and CESF in DBCS locales.
- **cicslterm** hangs, when ctrl+c is sent to a **cicslterm** being used in DBCS locales.
- In all locales, **cicslterm** hangs when you send the map after modifying the attributes of the map inside a program.

In the above situations, use CUC supplied **cicsterm** as a terminal client.

Inconsistent ABEND code in a MicroFocus COBOL CICS application

An application written in C or C++ that generates a signal, when LINKed or XCTLed from a MicroFocus COBOL application, generates either an ASRA or A147 abend. This happens instead of the usual ASRA abend.

This is identified as a problem with MicroFocus. Contact your IBM support representative to know the status of this functionality.

Using a single instance of DB2 database

When multiple regions are involved in a transaction using the same DB2® database instance, with at least one region configured as File Manager and the other regions as Resource Manager, it results in CPML transaction hanging on Syncpoint.

TXSeries in DBCS locales on Windows

TXSeries does not work with any of the DBCS locales on Windows platform. For using TXSeries on a DBCS machine, set **LANG=en_US**. Although messages will be displayed in English, TXSeries will work well on the machine.

This problem has been identified with Microsoft Visual Studio. Contact your IBM support representative to know the status of this functionality.

Region abend occurs when TXSeries V6.2 communicates with TXSeries V6.1 using a PPC Gateway server

When TXSeries for Multiplatforms Version 6.2 (on HP-UX), front-end region, communicates with TXSeries for Multiplatforms Version 6.1 (on AIX), back-end region, through PPC Gateway server, one of the regions abends because of some exception. The region abend normally hits the front-end region (or the back-end region occasionally) if more than 2000 transactions abend within 48 hours.

A similar abend might occur when TXSeries V6.2 communicates with TXSeries V6.1 through PPC Gateway server on any platform combinations. Contact your IBM support representative in this case.

NON-XA C transactions with DB2 as Resource Manager

NON-XA C transactions with DB2 as Resource Manager give abend A147 on HP-UX 11iv3 on HP Integrity platform.

XA Connections with Microsoft SQL Server 2005 in IBM COBOL applications

XA connections from IBM COBOL applications to Microsoft SQL Server 2005 as Resource Manager do not work in TXSeries for Multiplatforms Version 6.2. This fails for IBM COBOL supplied with Rational® Developer for System Z (RDz) Version 7.1.

DefaultUserId must not be blank for cicsupdate command

You cannot use the **cicsupdate** command on an RD stanza with the DefaultUserId set to blank. For example:

```
cicsupdate -r rd region_name DefaultUserId=" "
```

is not supported.

You must specify a value for the DefaultUserId field, for example:

```
cicsupdate -r rd region_name DefaultUserId="user"
```

Solaris libc patch 119689-07 is required

On Solaris, libc patch 119689-07 is required. This patch includes a fix for problem "6269525 pthread_cancel() in an atfork handler causes hang when linked with libns1" which is required by TXSeries for SARPC.

Message ERZ029017E during JAVA DTP transactions

During JAVA DTP transactions you might see the following messages in the CSMT.out file:

```
ERZ029017E/3602 07/25/06 10:04:11.598942000 region_name 21036/0001: DTP1 specified an unrecognized conversation identifier 0xB0097E38 on the EXTRACT ATTRIBUTE S command.  
ERZ029017E/3602 07/25/06 10:04:11.599689000 region_name 21036/0001: DTP1 specified an unrecognized conversation identifier 0xB0097E38 on the EXTRACT ATTRIBUTE S command.
```

You can ignore these messages.

Instructions for using the TCP protocol for ISC

TXSeries for Multiplatforms Version 6.2 re-enables ISC over PPC-TCP protocol among TXSeries CICS regions across different machines in a given network. The configuration requirements stay the same as for TXSeries Version 5.1. Some important prerequisites are described below.

Setting the environment variable CICS_HOSTS

The CICS_HOSTS environment variable should be set to indicate the machines where the remote regions (to which the current region communicates) reside. CICS_HOSTS must be set in the `/var/cics_regions/region_name/environment` file. For example, for region A on machine X to communicate with region B on machine Y, set CICS_HOSTS as follows:

- In the environment file of region A:
CICS_HOSTS=Y
- In the environment file of region B:
CICS_HOSTS=X

For more information on overall configuration for PPC-TCP, refer to the *TXSeries for Multiplatforms Intercommunication Guide*.

Interoperating with TXSeries 5.1

If a CICS region on TXSeries for Multiplatforms Version 6.2 is to communicate with a CICS region on TXSeries for Multiplatforms Version 5.1 over PPC-TCP, the following requirements must be observed:

- The minimum level of TXSeries for Multiplatforms Version 5.1 required is:

On AIX and Windows

- TXSeries CICS 5.1.0.4 or higher
- TXSeries Encina 5.1.0.1 or higher

On Solaris

- TXSeries CICS 5.1.0.4 or higher
- TXSeries Encina 5.1.0.1 with APAR IY90321 or higher

On HP-UX

- TXSeries CICS 5.1.0.4 with APAR IY90317 or higher
 - TXSeries Encina 5.1.0.1 with APAR IY90316 or higher
- The following environment variables are required on the TXSeries for Multiplatforms Version 5.1 machine. These settings should be done before starting any SFS or PPC Gateway servers or CICS regions.
 - Set `RPC_SUPPORTED_PROTSEQS` to `ncadg_ip_udp ncacn_ip_tcp`. This environment variable should be set only while starting DCE and unset immediately after that; that is, it should not be used while starting an SFS Server, a PPC Gateway, or a CICS region.
 - Unset the environment variable `ENCINA_BINDING_FILE`.
 - Set the environment variable `ENCINA_BINDING_ENDPOINT_HOSTS=""`. If the participating region is on a remote machine, set `ENCINA_BINDING_ENDPOINT_HOSTS` to the names of machines where the remote regions reside. You should set this environment variable in the region's environment file as well as in the shell. However, on AIX, you can set it in the `/etc/environment` file and on HP-UX in the `/etc/profile` file.

Region names

Avoid using the same name for different regions across two different machines when using the CICS_HOSTS environment variable. For example, two machines, Machine 1 and Machine 2 have a region called Region 1. If the CICS_HOSTS environment variable is set to Machine 2 on Machine 1, and if Region 1 is already running on Machine 2, Region 1 will not come up on Machine 1.

During PPC-TCP communication, CICS discovers the participating regions with a preference to the local machine first and then subsequently in the order of how the CICS_HOSTS environment variable has been set. This means that, if Region 1 wants to communicate with Region 2 on a remote machine, there must not be a region called Region 2 running on the local machine. If there is, CICS always resolves to the region on the local machine and so tries to communicate with the local region of that name, instead of the intended region on the remote machine.

Coexistence with DCE

TXSeries Version 6.2 cannot coexist with DCED on the same machine; that is, you cannot run a DCED process alongside TXSeries Version 6.2. This limitation arises because TXSeries Version 6.2 uses a new SARPCD process on Open Systems platforms to store and manage endpoint information of CICS regions and servers. For interoperability with previous versions of TXSeries that are running on other machines, the SARPCD process listens on port 135. This port is also used by DCED, meaning that DCED cannot coexist with SARPCD and TXSeries Version 6.2.

The SARPCD process has additional capability over DCED to manage CICSIPC endpoints, local endpoints used by TXSeries Version 6.2 apart from TCP, and UDP endpoints, which prevents the DCED process being used as a replacement for the SARPCD process to manage endpoints in TXSeries Version 6.2.

Restrictions when using debuggers with TXSeries

Note the following restrictions that apply when using certain debuggers with TXSeries:

IBM Distributed Debugger for Windows

C and C++ applications cannot be debugged.

IBM Debugger for AIX and Windows

Transactions with names that start with the letter “C” cannot be debugged.

Using Animator on Solaris

On Solaris, cicsanimsrv is being shipped with root:root ownership and permissions of 6555 (set uid bit set). This is different from the AIX and HP-UX (PA-RISC and HP Integrity Platform) platforms where cicsanimsrv is shipped with cics:cics and permissions of 6555. This is required to run the Animator as user “cics” to ensure that a COBOL program that is running in an application server process attaches to Animator successfully.

For more information about using Animator, refer to the information about using debugging tools integrated with compilers running on CICS on Open Systems in the *TXSeries for Multiplatforms Application Programming Guide*.

This is identified as a problem with MicroFocus. Contact your IBM support representative to know the status of this functionality

Configuring DB2 on HP-UX (PA-RISC)

DB2 cannot be configured either as a resource manager or as a file manager with TXSeries Version 6.2 on the HP-UX (PA-RISC) platform. There are known issues with this. Contact your IBM support representative for the latest updates.

Default region configuration option for Windows

The default region configuration option in the installer is not supported on Windows platform.

First time installation of TXSeries on Windows platform

The first time you install TXSeries Version 6.2 on Windows platforms, you have to logout and again log in before using TXSeries.

Warning messages during installation and uninstallation

If TXSeries installation is canceled, you might see the following messages on the console:

```
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/UpFolder.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/ListView.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/Computer.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/File.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/Directory.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/FloppyDrive.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/NewFolder.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/DetailsView.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/HomeFolder.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/HardDrive.gif not found.
com.sun.java.swing.plaf.motif.MotifLookAndFeel/icons/JavaCup.gif not found.
```

You can ignore these messages.

If you uninstall TXSeries, you might see the following messages on the console:

```
cat: cannot open /tmp/istemp16148278102236/chunk2
rm: /tmp/istemp16148278102236/chunk1: No such file or directory
rm: /tmp/istemp16148278102236/chunk2: No such file or directory
```

You can ignore these messages.

CICS Java class Region

The following member functions of the CICS Java class Region might not work with Java 1.5 on Windows platforms:

- **static void disableTrace()** Disable main TRACE flag for the region (Method is not supported in this release of CICS TS)
- **static void disableTrace(java.util.BitSet options)** Disable region trace flags (Method is not supported in this release of CICS TS)
- **static void enableTrace()** Enable main TRACE flag for the region (Method is not supported in this release of CICS TS)
- **static void enableTrace(java.util.BitSet options)** Enable region trace flags (Method is not supported in this release of CICS TS)
- **static java.lang.String getAPPLID()** Return the APPLID of the region.
- **static void getCWA(CWAHolder holder)** Return a copy of the Common Work Area (CWA).
- **static java.lang.String getSYSID()** Return the SYSID for the region.
- **static void setAPPLID(java.lang.String applid)**
- **static void setCWA(byte[] data)** Update the contents of the CWA from an array of bytes.
- **static void setSYSID(java.lang.String SYSID)**

Char data type on Oracle with Micro Focus Server Express COBOL

If you use Micro Focus Server Express COBOL to create tables in an Oracle database for use with batch programming, char are not supported as a data type for columns in the tables. Use Oracle data type raw instead.

Configuring Oracle on AIX

SMITTY does not support configuring Oracle as File Manager.

Resource level security checks and CEDF

The description of CEDF in the *TXSeries for Multiplatforms Administration Reference* states that, if a transaction has no resource level security checks, and you do not redefine the CEDF transaction, the default resource level security checks will cause a security violation, the CEDF transaction will fail, and an error message will be written to CSMT. Currently, CICS does not throw a security violation under these circumstances, but CEDF runs normally.

Migrating files between the SFS and DB2 or Oracle

Some restrictions apply while migrating files between the SFS and DB2 or Oracle when used as file managers.

You need to create a file on the SFS server, and then use cicsddt or cicsodt to import the flat file generated from DB2 or Oracle. However if you dump the records as-is and then try to import them, cicsddt fails to import the file. To avoid this problem, you need to create the flat file without dump as-is. For example:

Oracle to SFS

Do not dump as-is while creating a flat file from Oracle (cicsodt). Create a corresponding file in SFS and directly import the file (cicsddt).

DB2 to SFS

Do not dump as-is while creating a flat file from DB2 (cicsddt). Create a corresponding file in SFS and directly import the file (cicsddt).

DB2 to Oracle

Do not dump as-is while creating a flat file from DB2 (cicsddt). Create a corresponding file in Oracle and directly import the file (cicsodt).

Oracle to DB2

Do not dump as-is while creating a flat file from Oracle (cicsodt). Create a corresponding file in DB2 and directly import the file (cicsddt).

Flowed user ID on SNA connections

The description of Communications Definitions (CD) in the *TXSeries for Multiplatforms Administration Reference* states that, if the CD stanza entry **OutboundUserIds** is set to sent, the user IDs are sent on outbound requests for this connection. However, if **ConnectionType=local_sna** is set for the SNA protocol, with the **OutboundUserIds=sent** and **RemoteSysSecurity=trusted** attributes, the remote region receives the default user ID instead of the flowed user ID.

WebSphere MQ switch load file

Except on HP-UX (HP Integrity Platform), do not use the default switch load file (\$MQM_HOME/lib/amqzsc) that is packaged with WebSphere MQ Version 6.0 with TXSeries for Multiplatforms Version 6.2. Use the source file \$MQM_HOME/samp/amqzscix.c instead, and compile your own switch load file.

Use the following command to compile the switch load file:

```
xlc_r amqzscix.c -I/usr/include -I/usr/lpp/cics/include \  
-e amqzscix -o amqzsc /usr/lpp/cics/lib/regxa_swxa.o \  
-L$MQM_HOME/lib -L/usr/lpp/cics/lib -lmqmc_r -lmqmcics_r \  
-lmqmx_r -lmqz_r -lcicsrt -lEncServer -lpthreads -lsarpc
```

Steps to build the switchload file for TXSeries Version 6.2 on the following platforms:

AIX

```
echo "amqzscix" > tmp.exp  
xlc_r $MQ_ROOT/samp/amqzscix.c -I/usr/lpp/cics/include \  
-I$MQ_ROOT/inc -e amqzscix -bE:tmp.exp -bM:SRE -o amqzscix \  
/usr/lpp/cics/lib/regxa_swxa.o -L$MQ_ROOT/lib -L/usr/lpp/cics/lib \  
-lcicsrt -lEncServer -lpthreads -lsarpc \  
-lmqmcics_r -lmqmx_r -lmqz_r -lmqmc_r -lmqzse
```

Where:

MQ_ROOT= WMQ install directory.

HP-UX

```
c89 -c $MQ_ROOT/samp/amqzscix.c \  
-I/opt/cics/include +e +z -o amqzscix.o  
ld +I CICS_XA_Init +e CICS_XA_Init -b -o amqzscix \  
amqzscix.o /opt/cics/lib/regxa_swxa.o -L$MQ_ROOT/lib -L/opt/cics/lib \  
-lcicsrt -lc_r -lEncina -lEncServer \  
-lmqmcics_r -lmqmx_r -lmqz_r -lmqmc_r -lmqzse -lmqm_r
```

Where:

MQ_ROOT= WMQ install directory

Solaris

```
/opt/SUNWspro/bin/cc $MQ_ROOT/samp/amqzscix.c -I/opt/cics/include \  
-I$MQ_ROOT/inc -mt -G -o amqzscix \  
/opt/cics/lib/regxa_swxa.o -L$MQ_ROOT/lib -R$MQ_ROOT/lib \  
-L/opt/cics/lib -lcicsrt -lEncina -lEncServer \  
-lsocket -lnsl -lc -ldl -lmqmcics -lmqmx -lmqz -lmqmc -lmqzse
```

Where:

MQ_ROOT= WMQ install directory

Windows

```
echo LIBRARY AMQZSCIN > amqzscin.def  
echo EXPORTS >> amqzscin.def  
echo CICS_XA_Init >> amqzscin.def  
cl -Z7 -Od -c -W3 -MD -Gz $(CL_FLAGS) -DWIN32 $(MQM_ROOT)\Tools\c\  
Samples\amqzscin.c $(MQM_CCFLAGS) $(CICS_CCFLAGS)  
link -nod -dll -out:$(SWITCH_LOAD_FILE) -def:$(DEF_FILE) amqzscin.obj  
$(CICS_REGXA_OBJ) \  
$(CICS_LDLIBS) $(MQM_LDLIBS) $(MQM_SWITCHLOAD_LDLIBS) \  
$(SYSTEM_LDLIBS) -NODEFAULTLIB:msvcrt.lib
```

Where:

MQM_ROOT= WMQ Install Directory

```

MQM_CCFLAGS=-I$(MQM_ROOT)\tools\c\include
MQM_LDFLAGS=-L$(MQM_ROOT)\tools\lib
MQM_LDLIBS=$(MQM_ROOT)\tools\lib\mqm.lib
MQM_SWITCHLOAD_LDLIBS=$(MQM_ROOT)\tools\lib\mqmxa.lib $(MQM_ROOT)\
tools\lib\mqmcics.lib
CICS_ROOT= CICS Install Directory
CICS_CCFLAGS=-I$(CICS_ROOT)\include
CICS_LDFLAGS=-L$(CICS_ROOT)\lib
CICS_LDLIBS=$(CICS_ROOT)\lib\libcicsrt.lib $(CICS_ROOT)\lib\libEncServer.lib
$(CICS_ROOT)\lib\libEncina.lib $(CICS_ROOT)\lib\libpthreads_sarpc.lib
DEF_FILE=amqzscin.def
SWITCH_LOAD_FILE=amqzscin.dll
CICS_REGXA_OBJ=$(CICS_ROOT)\lib\regxa_swxa.obj
SYSTEM_LDLIBS=msvcrt.lib kernel32.lib

```

Memory problems with SFS EXTFH and ACUCOBOL-GT

When using SFS EXTFH on AIX with ACUCOBOL, if you observe shared memory related problems (for example, a core dump because of unavailability of a shared memory), use the following workaround:

Set the AIX environment variable `LDR_CNTRL=MAXDATA=0x40000000` in the shell from where the EXTFH programs are invoked.

Configuring the maximum number semaphores on HP-UX (PA-RISC and HP Integrity Platform) platforms

TXSeries uses semaphores extensively on Open Systems platforms. The default value provided by HP-UX platforms is not sufficient for TXSeries to function correctly under a high load. You should increase the value of the kernel parameter **semnms** on HP-UX platforms to 10000. (You can use the SAM tool to do this.) If you do not modify the **semnms** kernel parameter, you might receive the following message when operating under a heavy load:

[ENOSPC] A semaphore identifier is to be created, but the system-imposed limit on the maximum number of allowed semaphore identifiers system wide would be exceeded.

Installation Verification Program for C on HP-UX (PA-RISC and HP Integrity Platform) platforms

When compiling the executable files on HP-UX platforms, to copy the maps from the region bin directory into the region map directory, enter the commands:

```

cp dfhdall /var/cics_regions/region_name/maps/en_US.iso88591/.
cp dfhdcom /var/cics_regions/region_name/maps/en_US.iso88591/.
cp dfhdmnu /var/cics_regions/region_name/maps/en_US.iso88591/.
cp dfhdbrw /var/cics_regions/region_name/maps/en_US.iso88591/.
cp dfhdren /var/cics_regions/region_name/maps/en_US.iso88591/.

```

HP-UX 11iv2 (HP Integrity Platform) : Logical volumes for SFS and PPC Gateway

On HP-UX 11iv2 on HP Integrity Platform, while creating the SFS server or PPC Gateway, **cicscp** command might fail as shown below.

While creating an SFS server you might see the following error messages on the console:

```
# cicscp -v create sfs_server `hostname`
ERZ059004I/0107: Starting RPC daemon.
ERZ059001I/0104: RPC daemon started successfully.
ERZ096103I/0199: Creating an SFS server
ERZ105006I/0011: Directory '/var/cics_servers/SSD/cics/sfs/HBPTC027' created
ERZ084009W/8429: No runtime recovery image for server './cics/sfs/HBPTC027',
cold start assumed
ERZ010130I/0734: Creating subsystem 'cicssfs.SHBPTC02'
ERZ038038I/0044: Server './cics/sfs/HBPTC027' added as a subsystem
lvcreate: Not enough free physical extents available.
Logical volume "/dev/vg00/log_SHBPTC02" could not be extended.
Run the "lvextend" command to create space on the Logical Volume.
ERZ096003E/0004: cicscp command failed
```

While creating a PPC Gateway server you might see the following error messages on the console:

```
# cicscp -v create ppcgwy_server DUMMY
ERZ059004I/0107: Starting RPC daemon.
ERZ059002I/0101: RPC daemon is already running.
ERZ096084I/0133: Processing a create ppcgwy_server command
ERZ105006I/0011: Directory '/var/cics_servers/GSD/cics/ppc/gateway/DUMMY' created
ERZ088009W/8829: No runtime recovery image for server './cics/ppc/gateway/DUMMY',
cold start assumed
ERZ010130I/0734: Creating subsystem 'cicsppcgwy.PDUMMY'
ERZ035008I/0020: Server './cics/ppc/gateway/DUMMY' has been added as a subsystem
lvcreate: Specified LogicalVolumeSize is too large for the PhysicalExtentSize
of the Volume Group. Resulting number of extents is out of the range
1 to 65535 (0).
ERZ096003E/0004: cicscp command failed
```

This is because of the physical extents (PE) Size given for the Volume group. To correct this error, get the PE Size from vgdisplay command. Depending on the PE Size, set the corresponding size variable for SFS or PPC Gateway respectively. That is, set CICS_SFS_SIZE variable for SFS or CICS_PPCGWY_SIZE for PPC Gateway.

These must be set to a value which is equal to or greater than the PE Size. For example, vgdisplay shows the following output:

```
# vgdisplay
--- Volume groups ---
VG Name                /dev/vg00
VG Write Access        read/write
VG Status               available
Max LV                 255
Cur LV                 39
Open LV                 39
Max PV                 16
Cur PV                 2
Act PV                  2
Max PE per PV          4356
VGDA                    4
PE Size (Mbytes)       32
Total PE                8702
Alloc PE                4512
Free PE                 4190
Total PVG                0
Total Spare PVs         0
Total Spare PVs in use 0
```

In this situation before creating the SFS server, CICS_SFS_SIZE needs to be exported in the command line before executing the command. It must be set to a value greater than or equal to 32. That is, export CICS_SFS_SIZE=32.

Similarly, for PPC Gateway server, CICS_PPCGWY_SIZE needs to be exported in the command line before executing the command. It must be set to a value greater than or equal to 32. That is, export CICS_PPCGWY_SIZE=32.

SFS migration

CICS searches for metadata information while uploading the files to SFS. This might result in unnecessary delays if the file does not contain any metadata. To speed up the uploading of "XDT files without metadata" to SFS in such situations, a new variable CICS_XDT_MARKER_NOT_PRESENT is introduced. This variable can be set to speed up the uploading.

XCTL from COBOL to Java on HP-UX (HP Integrity Platform)

With MicroFocus COBOL, DPL from a COBOL program to a Java program using XCTL fails and you see following message on the console file:

```
Error occurred during initialization of VM.  
Signal chaining not allowed for VM interrupt signal, try -XX:+UseAltSigs.
```

For this to work CICS_JAVA_OPTIONS must be set to -Xusealtsigs in the region's environment file and the region should be cold started. That is, CICS_JAVA_OPTIONS="-Xusealtsigs".

EXTFH on HP-UX (HP Integrity Platform)

When using External File Handler (EXFTH) on HP-UX Integrity Platform with ACUCOBOL and MFCOBOL, the following settings are required.

For EXTFH to work with ACUCOBOL, LD_PRELOAD must be set as shown in Table 1.

Table 1. LD_PRELOAD settings for EXTFH with ACUCOBOL

File Manager	LD_PRELOAD
SFS	LD_PRELOAD="/usr/lib/hpux32/libpthread.so"
DB2	LD_PRELOAD="/usr/lib/hpux32/libc.sl:/usr/lib/hpux32/libpthread.so:/opt/cics/lib/libsarpc.sl"

For External File Handler to work with MFCOBOL, set LD_PRELOAD as shown in Table 2.

Table 2. LD_PRELOAD settings for EXTFH with MFCOBOL

File Manager	LD_PRELOAD
SFS	LD_PRELOAD="/usr/lib/hpux32/libpthread.so.1"
DB2	LD_PRELOAD="/opt/cics/lib/libsarpc.sl"

This release does not support EXTFH with Oracle as file manager.

Chapter 5. Fixed defects in TXSeries for Multiplatforms Version 6.2

This chapter briefly describes defects that have been fixed since the 6.1 release of TXSeries.

- **IY96649** U3466 abend during normal task termination when using XA compliant database as Resource Manager or File Manager.
- **IY92099** Region Pool Memory leak in TXSeries CICS region using XA compliant database as FileManager or Resource Manager.
- **IY92451** Avoid forever looping while dumping ENCINA structure.
- **IY89224** U5701 abend received when a COBOL program is repeatedly called from a C program with COBOL caching disabled.
- **IY90319** Abend U4419 in process CICSIP as a result of a EXC_E_ILLADDR.
- **IY91826** Abend U3466 after CICSAS process ends unexpectedly.
- **IY97979** Region shutdown hangs if tracebuffer is set on.
- **IY98253** U4419 abend in receive thread of CICSIP process.
- **IY89969** Performing an inquire of a non-existent TS queue returns a normal response rather than QIDERR when the EI trace is on.
- **IY92876** CICS cannot detect the terminal is not active after network failure.
- **IY95412** RTS 200 error after using COBOL NEWCOPY.
- **IY90359** EXTfH browse operation does not work on secondary index with all operators.
- **IY99786** A158 abend occurs on HP systems with CICS trace running.
- **IY95577** Duplicate TSQ record in CICS database.
- **IY97926** Improper handling of multibyte character stream.
- **IY95676** U1601 abend occurs when transaction has already been aborted.
- **IZ02624** MAX TCLASS value not refreshed in the CST9 screen when modified using CEMT.
- **IY78066** CMF fields 96 (EXEC-CICS) and 216 (CICS-CPU) are not reset correctly.
- **IY84897** "Program full path name" field in all dump output is empty.
- **IY86598** The CICSNP process gets a illegal exception while trying to connect using CTG.
- **IY93287** C++ PROGRAM compiled with -AA option abends on HP platform.
- **IY95686** Improper clean-up of RPC communication structure during forcepurge.
- **IY91050** cicssdt takes a long time to display the recording meter, when uploaded a file to the SFS server.
- **IZ01261** Task shared pool summary fields showing negative values when STATFILE is formatted.
- **IZ04287** Application server Id leak when the process terminates abnormally.
- **IY93688** Improper terminal uninstallation when task is terminated abruptly.
- **IY97901** Avoid AEIQ abend when we are trying to create a TSQ which is already exist.
- **IY90517** Application server hang when MF COBOL application receives signal.
- **IY96163** EXEC CICS set unable to set string type attributes.
- **IY90479** cicstran command cannot translate code with Korea characters when locale is set to KO_KR.

- **IY93303** Synchronize multiple threads calling TERTL_EXIT.
- **IY93300** Process hangs in CIPC_MutexLock because the mutex address is not word aligned.
- **IY93301** CICSIC (client process) hangs in CIPC_CONNECT because cicsteld (server) has gone away.
- **IZ04619** cicstran is misplacing period in .cbl file after translation.
- **IZ04578** Low performance for more no. of records when SFS files converted to flat file (STOF) in cicssdt.
- **IZ03495** Not able to login in Admin Console.
- **IZ03012** User specifying SFS_PERMITTED_RIGHTS authority in OFD specification results in the error- insufficient authority.
- **IY99753** Web Admin Console doesn't show some stanza entries.
- **IY92635** Server is failing to start while using SMITTY on AIX platform.
- **IY97649** cicssdt unable to load a flat file greater than size 32K which dumped with ASIS option.
- **IY92059** CICS Administration Console shows an error 404 on Windows and will not start.

Fixed defects in TXSeries for Multiplatforms Version 6.1

This chapter briefly describes defects that have been fixed since the 6.0 release of TXSeries. It also describes the defects that have been fixed since the 5.1 release of TXSeries.

- **IY79018** When SAFETYLEVEL=NORMAL is set COBOL programs receive SIGSEGV.
- **IY79207** Incorrect header for the dynamic totals field in the STATS report.
- **IY78602 and IY83735** Incorrect APPLID after a CICSDELETE is done on a runtime CD, followed by a CICSUPDATE to both runtime and permanent on same CD.
- **IY78798 and IY83377** Receiving an INVREQ after an EXEC CICS WRITE if the file being written to is defined with both DECIMAL and BYTEARRAY fields.
- **IY78807** If the region is started with the CICSSTART command the CSMT from the previous startup is renamed and then emptied giving 0 length.
- **IY79363** TXSeries CICS region will not start with MAXREGIONPOOL greater than 28 MB on Windows 2003 systems.
- **IY80298** When autoinstalling terminals occasionally receive abend A11A because the generated TERMID conflicts with the models in the WD.
- **IY80537** Error 1506-068 on compilation of the Oracle make file.
- **IY81035 and IY81036** IBM Distributed Debugger support for TXSeries CICS on Windows.
- **IY81370** Using CDCN for ACUCOBOL requires that the display be LOCALHOST:0.
- **IY81716** CRSR transaction fails to ship remote transactions.
- **IY82019 and IY83819** Replace non-reentrant functions used in CICS signal handler with appropriate reentrant functions.
- **IY82118** Repeated INQUIRE TASK LIST under stress leads to A57A abend.
- **IY82179** Signal 11 received when SERVERMEMCHECKINTERVAL, SERVERMEMCHECKLIMIT and SAFETYLEVEL=NORMAL is set in the RD.
- **IY82238** Abend A57A due to unsuccessful condition 'FALSE' for function INFEV_STOPCLOCK after FORCE PURGE of another transaction.

- **IY82777** Handle SFS OFD cleanup appropriately during region startup.
- **IY82791 and IY86812** Tight CPU loop during terminal install when the terminal name is supplied and it conflicts with an existing terminal ID.
- **IY82933** Script BACKUP_SFS.SH provided in the CICS examples directory does not work on the Solaris platform.
- **IY83304** Files that have been migrated from SFS to Oracle file system receive file status code 35 when using EXTFH to access KSDS.
- **IY83960** CICS region connection status is not set correctly when CICS task is FORCEPURGED due to client timeout.
- **IY84158** Dump hangs when U4802 occurs.
- **IY84862** When task number exceeds 9999999, EXEC CICS INQUIRE TASK returns FAIL with RESP 91.
- **IY84871** Application Server hangs while force purging when the SAFETYLEVEL attribute in the RD.STANZA is set to NORMAL.
- **IY86378** Cannot transfer parameters to transaction when using CICSTELD -T.
- **IY86512** User closes their TELNET terminal leaving the transaction still running. When the transaction completes, they receive abend U1601.
- **IY87241** CICS statistics does not decrement ActiveTrans when cicsas terminates unexpectedly.
- **IY87970** TWASIZE shows incorrect value through CECI.
- **IY87972** Region pool leaks with DB2 as file manager.
- **IY88665** When connecting to TXSeries via CICSTELD with a heavily loaded system, ERZ018006E is issued because input is taken as a new transaction.
- **IY88822** FORCEPURGE does not reset the counter for MAP.
- **IY88865** TCA main mutex is uninitialized during FORCEPURGE, and results in U5701 when CICSAM wants to clear the same mutex.
- **IY89363** SMITTY START SFS fails when admin mode is specified.

Fixed defects in TXSeries for Multiplatforms Version 6.0

This section briefly describes defects that have been fixed since the 5.1 release of TXSeries.

When available, defect numbers and APAR numbers are provided. Unless otherwise noted, all information in this chapter applies to TXSeries 6.1 on all supported platforms. Information that is platform-specific is denoted by brackets ([]) that enclose the name of the platform to which the information applies.

- **IY58024** (defect 204965) The cicsip listener process hangs when a receive thread times out.
- **IY58072** (defect 204786) Date format for message ERZ010128E in console log is always MM/DD/YY instead of the locale specific format.
- **IY58105** (defect 204971) CICS region abends with U5701 in the case of XPRcv timeouts.
- **IY58107** (defect 204975) Enhancements of cicstran over the handle condition apis with copybooks.
- **IY58108** (defect 204926) With Oracle 9i 64 bit, IBM COBOL cheese transaction fails with an ASRA.
- **IY58112** (defect 204590) File DFHCJDB.MAP is required so that the CJDB JAVA debugging can be used. It was not included in the Solaris package.

- **IY58115** (defect 204872) CICS region abends with U6301 after the termination of a cicssl process.
- **IY64374** (defect 205241) (AIX only) Building the DB2 XA switchload file fails when libdb2.a is not in /usr/lib.
- **IY65600** (defect 205312) When using CICSSDT QTOS to convert a qsam file into SFS, incorrect output is received due to an old buffer being used.
- **IY65621** (defect 205383) Increasing the number of TCPPROCESSCOUNT gives SUPOS_TAKESOCKET message in symrecs.
- **IY65703** (defect 205322) When using CICSSDT QTOS to convert a qsam file into SFS, the log file name is garbled.
- **IY66401** (defect 205350) Enable GRAPHIC datatype support in CICSSDT QTOS function.
- **IY66402** (defect 205351) Increase the number of DFHCNV macros in CICSSDT QTOS function.
- **IY66499** (defect 205362) CICSSDT replaces SO/SI characters with NULL.
- **IY67419** (defect 205116) Search of an application module to be made more effective.
- **IY67521** (defect 204424) SEGV during postmortem prevents valid region abend.
- **IY67537** (defect 204953) FTOS command fails for CICSSDT.
- **IY67538** (defect 204957) U5655 if the mutex state is SUPOS_MUTEXSTATE_UNKNOWN.
- **IY67539** (defect 204963) CICS MAP allow hyphens in the DFHMDF macro field name for COBOL.
- **IY67541** (defect 204967) APCT error for COBOL dir paths/prog names having period chars.
- **IY67542** (defect 205069) Terminal ID generated matches with IDs in WD.stanza.
- **IY67543** (defect 204976) RPC security issues while working with EPI/ECI applications.
- **IY67544** (defect 205117) Region does not start with LDR_CNTRL & TaskPrivatePool > 256MB.
- **IY67545** (defect 205005) Tran ID is not getting printed along with the EXEC CICS API.
- **IY67546** (defect 205053) CICSRL hangs when the Oracle database goes down on AIX.
- **IY67547** (defect 205132) COBOL runtime occupies CICS shared segment.
- **IY67548** (defect 205062) The -u option needs to be enabled for CICSDDT to connect to a remote database.
- **IY67549** (defect 205075) Fails to create table using CICSDDT FTOD command.
- **IY67550** (defect 205091) CICSAS process with high CPU usage in HP-UX.
- **IY67551** (defect 205079) SYNCONRETURN bit is not being set in FMH43 with DPL.
- **IY67552** (defect 205253) Enable DFHCCINX to display IP address.
- **IY67553** (defect 205287) Timeout implementation for ISC functions with CICS TCP/IP.
- **IY68493** (defect 205340) U5701 region abend while attempting to run a program repeatedly.
- **IY63888** (defect 205365) Compatibility APAR to gracefully handle and abend inbound requests with containers.

- **IY69474** (defect 205586) Supporting multiple COBOL runtimes to work simultaneously.
- **IY70711** (defect 205599) FTOS on CICAPARSSDT is hanging on JA_JP and ZH_TW locales with more than 127(RRN) records.
- **IY71703** (defect 205619) ECI-RPC client application when timed out causes CICS to hang in a multi-processor AIX system.
- **IY72702** (defect 205739) CICS signal handler loops when an exception is generated while handling the current signal.
- **IY73015** (defect 205696) CECI inquire connection on an APPC connection is returning CONNSTATUS(1) when the connection is INSERVICE and acquired.
- **IY74226** (defect 205740) Region pool leak observed after multiple transaction forcepurges and subsequent cleanup activity in the CICS application server process.
- **IY75448** (defect 205815) Renaming the core file shows incorrect timestamp.
- **IY75610** (defect 205812) Lack of facility to disable automatic invocation of ShowProclInfo (SPI) against the core file to generate stack APAR dump.
- **IY75911** (defect 205821) On a silent install when specifying a file for the setup log, the resulting log is incomplete.
- **IY76019** (defect 205823) ERRNO 24 when using the CICS leakdebug environment variable.
- **IY76310** (defect 205857) Abend U4199 in process CICSIP as a result of an exc_e_illaddr on a socket receive.
- **IY78106** (defect 205876) Abend A57A while negotiating client termination during transaction routing.
- **IY78198** (defect 205903) After installing SOLARIS linker patch, Micro Focus Cobol applications missing APPC symbol.
- **IY78531** (defect 205697) Messages ERZ001005I and ERZ015033E are issued incorrectly when a CICS COBOL program issues a COBOL call to another program.
- **IY78556** (defect 205699) APPC transactions fail to start on the region while most CICSAS processes are waiting for work.
- **IY78568** (defect 205418) CICS does not allow changing an expired password through EAM.
- **IY78571** (defect 205456) ERZ058003E received when attempting to connect to TXSeries CICS region via ECI or EPI when running on AIX 5.2.
- **IY78572** (defect 205568) CICS region abends with U5701/U5655 when transactions are FORCEPURGED.
- **IY78573** (defect 205563) CICS task shared pool corruption after a FORCEPURGE.
- **IY78575** (defect 205661) Incorrect screens are received when running the CDCN transaction to debug a program on a multi-processor machine.
- **IY78576** (defect 205623) Region crash during transaction backout/recovery with high CICS terminal install/uninstall activity while using CUC clients.
- **IY78577** (defect 205643) Java garbage collection produces a performance slowdown when java is running under TXSeries CICS.
- **IY78578** (defect 205757) When using CICSSDT, a hang is observed during updating of a file created using both decimal and byteArray type fields.
- **IY78579** (defect 205811) CICSTCL fails with ERZ058405E/0163: the (program '** failed to execute, error number is '2') when SYSLIB longer than 228 bytes.

- **IY78580** (defect 205866) TXSeries for CICS on windows on start receives exception_access_violation if MAXTSHPOOL >32M.

Chapter 6. TXSeries for Multiplatforms documentation

The documentation library for TXSeries for Multiplatforms consists of the books that are listed in “The documentation library for TXSeries for Multiplatforms.” The complete documentation library is available as Hypertext Markup Language (HTML), which you can view by using an Eclipse help system, and Portable Document Format (PDF). For other national languages, only a subset of the documentation is available in each format.

Note: Where only a subset of the documentation is available for a national language, some books might contain links to books that are not available in that language. If you need information from a missing national language book, use the U.S. English book.

The documentation library for all supported languages including U.S. English is provided with the product as HTML and PDF files on a single Quick Start/documentation CD-ROM for TXSeries for Multiplatforms Version 6.2.

You can also access or download the TXSeries for Multiplatforms documentation from the IBM Publications Center at <http://www.elink.ibm.com/public/applications/publications/cgi-bin/pbi.cgi> or through the TXSeries for Multiplatforms support pages at <http://www.ibm.com/software/ts/txseries/library>.

The documents that are on the Quick Start/documentation CD-ROM are available in the following formats:

Eclipse Help System plug-in

This is a structured HTML representation of the information that allows you to search across the library. You can run the viewer directly from the CD-ROM or copy it onto your hard disk. For instructions about how to view the Eclipse Help System plug-in, including instructions for adding the documentation plug-in to an existing Eclipse installation on your machine, see the readme file that is on the Quick Start/documentation CD-ROM.

PDF Using the latest version of the Adobe® Acrobat Reader or the Acrobat plug-in for your Web browser, you can view, search, or print the PDF documentation directly from the CD-ROM, or copy it from the CD-ROM to a local machine or network file system and perform the same operations on it from there. (The Adobe Acrobat Reader with Search Option can be downloaded from the Web at no charge.)

For information about installing and viewing the documentation, refer to the readme file on the Quick Start/documentation CD-ROM.

For more information about other sources of information about TXSeries for Multiplatforms, see “Information on the World Wide Web (WWW)” on page 37.

The documentation library for TXSeries for Multiplatforms

This section shows all the documentation that is available for TXSeries for Multiplatforms.

Table 3. The library for TXSeries for Multiplatforms

Form number	Document name	Document description
SC34-6632	<i>TXSeries for Multiplatforms Installation Guide</i>	Provides complete instructions for installing, configuring, and upgrading to the latest version of TXSeries for Multiplatforms.
SC34-6631	<i>TXSeries for Multiplatforms Concepts and Planning</i>	Introduces the TXSeries for Multiplatforms product, and provides high-level descriptions of transaction processing.
GC34-6645	<i>TXSeries for Multiplatforms Release Notes</i>	Provides platform- and release-specific information about TXSeries for Multiplatforms, including descriptions of new features, information for features or changes that were learned too late for incorporation into the product documentation, descriptions of defects that have been fixed since the last release of the product, and information about known restrictions that were associated with TXSeries for Multiplatforms and, where possible, suitable work-arounds.
SC34-6746	<i>TXSeries for Multiplatforms Administration Guide</i>	Provides guide information for administering CICS and CICS applications. It also includes the CICS glossary.
SC34-6641	<i>TXSeries for Multiplatforms Administration Reference</i>	Provides complete reference information for commands used to administer CICS on all supported platforms.
SC34-6627	<i>TXSeries for Multiplatforms SFS Server and PPC Gateway Server: Advanced Administration</i>	Provides information about administering the CICS SFS server and the CICS PPC Gateway server.
SC34-6634	<i>TXSeries for Multiplatforms Application Programming Guide</i>	Provides information about writing CICS application programs on all supported platforms.
SC34-6640	<i>TXSeries for Multiplatforms Application Programming Reference</i>	Provides reference information for the CICS application programming interfaces on all supported platforms.
SC34-6633	<i>TXSeries for Multiplatforms C++ Foundation Classes Programming Guide and Reference</i>	Provides information about writing CICS application programs in the C++ language.
SC34-6747	<i>TXSeries for Multiplatforms Front-End Programming Interface for Windows</i>	Provides information about using the CICS Front-End Programming Interface for Windows.
SC34-6636	<i>TXSeries for Multiplatforms Problem Determination Guide</i>	Helps administrators identify and diagnose problems with a CICS system or application. It describes symptoms of problems and their possible causes.
SC34-6638	<i>TXSeries for Multiplatforms Using CICS Workload Management</i>	Describes the CICS Workload Management utility.
SC34-6639	<i>TXSeries for Multiplatforms Messages and Codes</i>	Lists and describes all messages and codes that can be issued by a TXSeries for Multiplatforms system.
SC34-6644	<i>TXSeries for Multiplatforms Intercommunication Guide</i>	Describes how to implement communications between a CICS region and other systems (for example, another CICS region on a UNIX® or Windows machine or another application on a system such as a mainframe).
SC34-6642	<i>TXSeries for Multiplatforms Using IBM Communications Server for AIX with CICS</i>	Provides information for using CICS with the Systems Network Architecture (SNA) package provided by IBM Communications Server for AIX.
SC34-6750	<i>TXSeries for Multiplatforms Using HP-UX SNAplus2 with CICS</i>	Provides information for using CICS with the Systems Network Architecture (SNA) package provided by HP-SNAplus2.

Table 3. The library for TXSeries for Multiplatforms (continued)

Form number	Document name	Document description
SC34-6751	<i>TXSeries for Multiplatforms Using SNAP-IX for Solaris with CICS</i>	Provides information for using CICS with the Systems Network Architecture (SNA) package provided by SNAP-IX.
SC34-6748	<i>TXSeries for Multiplatforms Using IBM Communications Server for Windows Systems with CICS</i>	Provides information for using CICS with the Systems Network Architecture (SNA) package provided by IBM Communications Server for Windows.

Information on the World Wide Web (WWW)

Many sources of information on TXSeries for Multiplatforms are accessible from the TXSeries home page:

<http://www.ibm.com/software/ts/txseries>

This site includes information about TXSeries for Multiplatforms, including the complete online documentation set and details of educational opportunities and events that are related to these products. This site also provides access to the TXSeries for Multiplatforms support site, which contains TXSeries for Multiplatforms Program Temporary Fixes (PTFs) and information about third-party products that are supported for use with TXSeries for Multiplatforms. The Web pages on this site include:

- Online product documentation (www.ibm.com/software/ts/txseries/library), which includes the latest version of the *TXSeries for Multiplatforms Release Notes*.
- Technical support information (www.ibm.com/software/ts/txseries/support), which includes the latest support flashes, downloads, frequently-asked questions, and other support information such as about third-party supported products.

Other useful Web sites include the following:

- The IBM Publications Catalog Web site (<http://www.elink.ibm.com/public/applications/publications/cgibin/pbi.cgi>). Use this site to search for, view, download, or order books that are related to TXSeries for Multiplatforms. Some of these books are referred to from the books that are supplied with TXSeries for Multiplatforms. You can also order these books from an IBM branch office that is serving your area. When ordering, please refer both to the title of the book and to the IBM order number.
- The IBM Learning Services and Worldwide Information Web sites (<http://www.ibm.com/services/learning> and <http://www.ibm.com>). Use these sites to find the courses that are offered for TXSeries for Multiplatforms and related topics. You can get information about courses and whether they are available in your area by using these Web sites, by calling 1-800-IBM-TEACH (1-800-426-8322), or by contacting your IBM representative.

How to send your comments

If you especially like or dislike anything about any part of the documentation library for TXSeries for Multiplatforms, please use one of the methods listed below to send your comments to IBM. Feel free to comment on what you regard as specific errors or omissions, and on the accuracy, organization, subject matter, or completeness of the documentation. Please limit your comments to the documentation and the way in which the information is presented. To make comments about the functions of

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