



BEA Tuxedo®

New Features

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About This Document

This document provides reference information on file formats, data descriptions, Management Information Bases (MIBs), and system processes for the BEA Tuxedo system. The reference pages are arranged in alphabetical order by the name of the file format, data description, MIB, or system process.

What You Need to Know

This document is intended for the following audiences:

- Administrators who are interested in configuring and managing applications in a BEA Tuxedo environment
- Application developers who are interested in programming applications in a BEA Tuxedo environment

This document assumes a familiarity with the BEA Tuxedo platform and either C or COBOL programming.

e-docs Web Site

BEA product documentation is available on the BEA corporate Web site. From the BEA Home page, click on Product Documentation or go directly to the “e-docs” Product Documentation page at <http://e-docs.bea.com>.

How to Print the Document

You can print a copy of this document from a Web browser, one file at a time, by using the File—>Print option on your Web browser.

A PDF version of this document is available on the BEA Tuxedo documentation Home page on the e-docs Web site (and also on the documentation CD). You can open the PDF in Adobe Acrobat Reader and print the entire document (or a portion of it) in book format. To access the PDFs, open the BEA Tuxedo documentation Home page, click the PDF files button and select the document you want to print.

If you do not have the Adobe Acrobat Reader, you can get it for free from the Adobe Web site at <http://www.adobe.com>.

Related Information

Related documents are listed in the See Also section of each reference page. For MIBs, related information is listed for the MIB as a whole rather than for each class.

Contact Us!

Your feedback on the BEA Tuxedo documentation is important to us. Send us e-mail at docsupport@bea.com if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the BEA Tuxedo documentation.

In your e-mail message, please indicate that you are using the documentation for the BEA Tuxedo 9.1 release.

If you have any questions about this version of BEA Tuxedo, or if you have problems installing and running BEA Tuxedo, contact BEA Customer Support through BEA WebSupport at <http://www.bea.com>. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

Documentation Conventions

The following documentation conventions are used throughout this document.

| Convention | Item |
|--------------------------------|--|
| boldface text | Indicates terms defined in the glossary. |
| Ctrl+Tab | Indicates that you must press two or more keys simultaneously. |
| <i>italics</i> | Indicates emphasis or book titles. |
| monospace text | Indicates code samples, commands and their options, data structures and their members, data types, directories, and filenames and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples:</i> <pre>#include <iostream.h> void main () the pointer psz chmod u+w * \tux\data\ap .doc tux.doc BITMAP float</pre> |
| monospace boldface text | Identifies significant words in code. <i>Example:</i> <pre>void commit ()</pre> |
| <i>monospace italic text</i> | Identifies variables in code. <i>Example:</i> <pre>String <i>expr</i></pre> |
| UPPERCASE TEXT | Indicates device names, environment variables, and logical operators. <i>Examples:</i> <pre>LPT1 SIGNON OR</pre> |
| { } | Indicates a set of choices in a syntax line. The braces themselves should never be typed. |

| Convention | Item |
|------------|--|
| [] | <p>Indicates optional items in a syntax line. The brackets themselves should never be typed.</p> <p><i>Example:</i></p> <pre>buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...</pre> |
| | <p>Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.</p> |
| ... | <p>Indicates one of the following in a command line:</p> <ul style="list-style-type: none"> • That an argument can be repeated several times in a command line • That the statement omits additional optional arguments • That you can enter additional parameters, values, or other information <p>The ellipsis itself should never be typed.</p> <p><i>Example:</i></p> <pre>buildobjclient [-v] [-o name] [-f file-list]... [-l file-list]...</pre> |
| . | <p>Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.</p> |

New Features and Enhancements

The following sections describe the new features and enhancements offered in the current BEA Tuxedo release:

- [Oracle RAC Support](#)
- [Tuxedo .NET Workstation Client](#)
- [Remote Desktop Enhancement](#)
- [Enhancements](#)

Oracle RAC Support

Tuxedo 9.1 provides Transaction Monitor support for Oracle RAC by allowing an administrator to specify lists of groups associated with different RAC instances, thereby allowing Tuxedo to ensure that groups associated with different instances of the same RAC database do not participate in the same transaction. The Tuxedo Oracle RAC support feature also provides a way for Tuxedo transaction manager server (TMS) processes to be notified of RAC failover events. Consequently, this allows the TMS to re-obtain a list of prepared transactions from Oracle as required for RAC failover recovery.

Oracle RAC Configuration Documentation

For more information about configuring Oracle RAC with Tuxedo, see the following documentation:

- [Using Tuxedo with Oracle Real Application Clusters \(RAC\)](#)

- [Oracle Database 10g, Oracle Real Application Clusters Home Page](#)
- [Oracle Application Server 10g Adapters for Tuxedo](#)
- [Best Practices for Using XA with RAC](#)

Tuxedo .NET Workstation Client

The Tuxedo .NET Workstation Client enables you to write Tuxedo client applications using .NET programming languages to access Tuxedo services. It also provides connectivity between .NET workstation applications and Tuxedo services.

In Tuxedo 9.0, an early version was released. In Tuxedo 9.1, the Tuxedo .NET Workstation Client has been fully tested and enhanced. Taking advantage of object oriented (OO) technologies and .NET facilities makes new APIs more OO-compliant, as well as easier to use.

The current release supports only the workstation *client programming*. Native client and server-side programming are not yet supported.

The feature is developed and available as a component of the Tuxedo 9.1 installation process.

Tuxedo.NET Workstation Client Documentation

For more information see, [Creating Tuxedo .NET Workstation Client Applications](#).

Remote Desktop Enhancement

Allows Tuxedo to start up, be accessed and shut down using MS Windows Remote Desktop.

Enhancements

The following enhancements are available as part of Tuxedo 9.1:

Performance Enhancements

- TDomain Transaction Performance Enhancement
Improved performance when switching from Jolt or WLEC to WTC.
- Memory Usage Enhancement
Reduced memory footprint size compared to Tuxedo 9.0, bringing the memory footprint in Tuxedo 9.1 closer to the memory footprint of Tuxedo 8.1.

- CORBA/Java Interoperability Hardening

Improved overall functionality and performance for CORBA and Java interoperability.

Customer Enhancements

- TPESYSTEM Enhancement

Adds detailed information to ULOG when TPESYSTEM occurs for some critical call paths (for example, tpcall, tpcall and tpretrply).

- TPEXIT Enhancement

Indicates “EXITING” status after tpreturn(TPEXIT) is called. Prevents further requests from being dispatched to the server.

- Increased RDOMs Enhancement

Provides service-level failover for up to 10 domains.

