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# Teradata Tools and Utilities

## Release Definition

Release 13.0

B035-2029-088C

May 2009

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## Purpose

Teradata<sup>®</sup> Tools and Utilities is a group of products designed to work with Teradata Database. *Teradata Tools and Utilities Release Definition* provides an overview of the products and programs in Teradata Tools and Utilities 13.0. It contains important information received late in the release not included in other documentation associated with this release.

*Teradata Tools and Utilities Release Definition* also contains lists of:

- Teradata Database versions with which Teradata Tools and Utilities 13.0 are certified
- Product release version information
- Technical changes for each product in this release
- Documentation that supports this release
- Training and support centers

## Audience

*Teradata Tools and Utilities Release Definition* is intended for system administrators, analysts, engineers, and other database specialists who perform product installations or use Teradata Tools and Utilities products.

## Supported Releases

*Teradata Tools and Utilities Release Definition* supports Teradata Tools and Utilities 13.0. Unless otherwise specified in this document, “this release” refers to Teradata Tools and Utilities 13.0.

For release information on Teradata Database 13.0, see *Base System Release Definition*, B035-1725-098K.

## Additional Information

Additional information that supports Teradata Tools and Utilities is available at the web sites listed in the table that follows. In the table, *mmyx* represents the publication date of a manual, where *mm* is the month, *y* is the last digit of the year, and *x* is an internal publication code.

Match the *mmy* of a related publication to the date on the cover of this book. This ensures that the publication selected supports the same release.

Type of Information	Description	Source
Additional product information	<p>Use the Teradata Information Products web site to view or download the most recent versions of all manuals.</p> <p>Access for a list of specific manuals that supply related or additional information to this manual.</p>	<ol style="list-style-type: none"> <li>1 Go to <a href="http://www.info.teradata.com/">http://www.info.teradata.com/</a>.</li> <li>2 Under the <b>Online Publications</b> subcategory, <b>Browse by Category</b>, click <b>Data Warehousing</b>.</li> <li>3 Do one of the following: <ul style="list-style-type: none"> <li>• For a list of Teradata Tools and Utilities documents, click <b>Teradata Tools and Utilities</b>, and then select an item under <b>Releases</b> or <b>Products</b>.</li> <li>• Select a link to any of the data warehousing publications categories listed.</li> </ul> </li> </ol>
CD-ROM images	<p>Access a link to a downloadable CD-ROM image of all customer documentation for this release. Customers are authorized to create CD-ROMs for their use from this image.</p>	<ol style="list-style-type: none"> <li>1 Go to <a href="http://www.info.teradata.com/">http://www.info.teradata.com/</a>.</li> <li>2 Under the <b>Online Publications</b> subcategory, <b>Browse by Category</b>, click <b>Data Warehousing</b>.</li> <li>3 Click <b>CD-ROM List and Images</b>.</li> <li>4 Follow the ordering instructions.</li> </ol>
Ordering information for manuals	<p>Use the Teradata Information Products web site to order printed versions of manuals.</p>	<ol style="list-style-type: none"> <li>1 Go to <a href="http://www.info.teradata.com/">http://www.info.teradata.com/</a>.</li> <li>2 Under <b>Print &amp; CD Publications</b>, click <b>How to Order</b>.</li> <li>3 Follow the ordering instructions.</li> </ol>
General information about Teradata	<p>The Teradata home page provides links to numerous sources of information about Teradata. Links include:</p> <ul style="list-style-type: none"> <li>• Executive reports, case studies of customer experiences with Teradata, and thought leadership</li> <li>• Technical information, solutions, and expert advice</li> <li>• Press releases, mentions, and media resources</li> </ul>	<ol style="list-style-type: none"> <li>1 Go to <a href="http://www.teradata.com">Teradata.com</a>.</li> <li>2 Select a link.</li> </ol>

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# CHAPTER 1

## Release Information

This chapter provides an overview of the products and features in the Teradata Tools and Utilities 13.0 and the latest release of Teradata Database, which compose Teradata 13.0.

## Key Features

[Table 1](#) lists major enhancements made to the Teradata Tools and Utilities suite of products in support of Teradata 13.0 features. The enhancements include support for Teradata Database 13.0 features and Teradata Tools and Utilities-specific improvements.

**Note:** Not all of the enhancements in this release were made to all of the products in the Teradata Tools and Utilities suite. The Request for Changes sections in [Chapter 2: “Product Information”](#) list abstracts of enhancements for each product.

Table 1: Key Features

Supported Feature	Teradata Tools and Utilities Product
October 1, 2007, marked the official launch of Teradata Corporation. All references to NCR in Teradata Tools and Utilities software and documentation were changed to Teradata.	All Teradata Tools and Utilities products, except Host Utility Consoles (HUTCNS) and Interactive Teradata Query (ITEQ).
Additional operating system support.	For details, see <i>Teradata Tools and Utilities 13.0 Supported Platforms and Product Versions</i> , B035-3119.
Access modules built for Teradata load and unload utilities also work with Teradata Parallel Transporter without any recompiling or relinking.	<ul style="list-style-type: none"> <li>• Named Pipes Access Module</li> <li>• OLE DB Access Module</li> <li>• Teradata Data Connector</li> <li>• Teradata WebSphere MQ Access Module</li> <li>• Teradata Parallel Transporter (PT)</li> </ul>
Data Definition Language (DDL) replication allows utility type names and escape sequences to be expanded in SQL statements containing the AS USER prefix.	<ul style="list-style-type: none"> <li>• Basic Teradata Query (BTEQ)</li> <li>• ODBC Driver for Teradata</li> <li>• Teradata Call-Level Interface version 2 (CLIV2) for Network-Attached Systems (NAS)</li> <li>• Teradata Preprocessor (PP2)</li> </ul>
Geospatial data types allow customers to store, manage, and retrieve information based on aspects of spatial data, such as geometry, location, and topology.	<ul style="list-style-type: none"> <li>• ODBC Driver for Teradata</li> <li>• Teradata Administrator</li> <li>• Teradata Archive/Recovery Utility (ARC)</li> <li>• Teradata PP2</li> </ul>

Table 1: Key Features (continued)

Supported Feature	Teradata Tools and Utilities Product
<p>Large Query Support. Queries larger than 10 KB can now be imported using the SQL table for workload definitions.</p>	<ul style="list-style-type: none"> <li>• Teradata Index Wizard</li> <li>• Teradata Statistics Wizard</li> </ul>
<p>No Primary Index (NoPI) tables load data faster and more efficiently. After data is received by Teradata Database and converted into the proper internal format, all rows in a data parcel can be appended to a NoPI table without being redistributed to the corresponding hash-owning AMPs. Because unhashed tables don't require rows to be in any particular order, sorting work is also avoided.</p>	<ul style="list-style-type: none"> <li>• ODBC Driver for Teradata</li> <li>• Teradata ARC</li> <li>• Teradata Index Wizard</li> <li>• Teradata JDBC Driver</li> <li>• Teradata MDS</li> <li>• Teradata SET</li> <li>• Teradata Statistics Wizard</li> <li>• Teradata TPump</li> <li>• Teradata VE</li> </ul>
<p>Open Standards Compliance</p>	<ul style="list-style-type: none"> <li>• ODBC Driver for Teradata</li> <li>• Teradata JDBC Driver</li> </ul>
<p>Ordered analytics allow dynamic partitions based on some condition; for example:</p> <pre>SUM( x ) OVER (ORDER BY time ROWS UNBOUNDED PRECEDING RESET WHEN x IS NOT NULL)</pre>	<ul style="list-style-type: none"> <li>• ODBC Driver for Teradata</li> <li>• Teradata Administrator</li> </ul>
<p>PERIOD data types support the following element types:</p> <ul style="list-style-type: none"> <li>• PERIOD(DATE)</li> <li>• PERIOD(TIME(n))</li> <li>• PERIOD(TIME(n) WITH TIME ZONE)</li> <li>• PERIOD(TIMESTAMP(n))</li> <li>• PERIOD(TIMESTAMP(n) WITH TIME ZONE)</li> </ul>	<ul style="list-style-type: none"> <li>• BTEQ</li> <li>• ODBC Driver for Teradata</li> <li>• Teradata Administrator</li> <li>• Teradata ARC</li> <li>• Teradata CLIV2</li> <li>• Teradata Director Program (TDP)</li> <li>• Teradata FastExport</li> <li>• Teradata FastLoad</li> <li>• Teradata MultiLoad</li> <li>• Teradata OLE DB Access Module</li> <li>• Teradata Parallel Data Pump (TPump)</li> <li>• Teradata PT</li> <li>• Teradata PT Application Programming Interface (API)</li> <li>• Teradata PP2</li> <li>• Teradata Query Scheduler (QS)</li> </ul>
<p>Scalar sub-queries are supported everywhere a value expression is allowed compliant to ANSI syntax. Enhances application migration from other database sources to Teradata Database.</p>	<ul style="list-style-type: none"> <li>• ODBC Driver for Teradata</li> <li>• Teradata PP2</li> </ul>

Table 1: Key Features (continued)

Supported Feature	Teradata Tools and Utilities Product
<p>Teradata trusted sessions enables middle-tier applications to assert user identities and roles for privilege checking and query logging without establishing a logon session for the middle-tier application end user.</p> <p>Teradata trusted sessions, or user impersonation with query banding, provides a mechanism to communicate an alternative user ID to Teradata Database.</p>	<ul style="list-style-type: none"> <li>• ODBC Driver for Teradata</li> <li>• Teradata ARC</li> <li>• Teradata JDBC Driver</li> <li>• Teradata CLIV2 for NAS</li> <li>• TDP</li> <li>• Teradata PP2</li> <li>• Teradata Query Director (QD)</li> </ul>
<p>Teradata Active Systems Management Enhancements. See <a href="#">“Teradata Dynamic Workload Manager”</a> and <a href="#">“Teradata Workload Analyzer”</a> for details.</p>	<ul style="list-style-type: none"> <li>• Teradata Dynamic Workload Manager (DWM)</li> <li>• Teradata Workload Analyzer (WA)</li> </ul>

## Support Limitations

Not all of the enhancements in this release were made to all of the products in the Teradata Tools and Utilities suite. The following major enhancements are *not* supported by the Teradata Tools and Utilities suite of products listed in [Table 2](#).

Table 2: Unsupported Teradata 13.0 Features

Unsupported Teradata Database Features	Teradata Tools and Utilities Product
Geospatial data types	Teradata JDBC Driver
PERIOD data types	<ul style="list-style-type: none"> <li>• Teradata JDBC Driver</li> <li>• Teradata DWM</li> <li>• Teradata Index Wizard</li> <li>• Teradata Manager</li> <li>• OLE DB Provider for Teradata</li> <li>• Teradata SQL Assistant for Microsoft Windows</li> <li>• Teradata SQL Assistant/Web Edition</li> <li>• Teradata Statistics Wizard</li> <li>• Teradata System Emulation Tool (SET)</li> <li>• Teradata Visual Explain (VE)</li> <li>• Teradata WA</li> </ul>
User impersonation with query banding	<ul style="list-style-type: none"> <li>• Teradata DWM</li> <li>• Teradata Index Wizard</li> <li>• Teradata Manager</li> <li>• Teradata SQL Assistant for Microsoft Windows</li> <li>• Teradata SQL Assistant/Web Edition</li> <li>• Teradata Statistics Wizard</li> <li>• Teradata SET</li> <li>• Teradata VE</li> <li>• Teradata WA</li> </ul>

## Supported Operating Systems

Supported operating systems and product version numbers for all Teradata Tools and Utilities are available in a single spreadsheet titled *Teradata Tools and Utilities 13.0 Supported Platforms and Product Versions*, B035-3119-088K, at [www.info.teradata.com](http://www.info.teradata.com).

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### To view product version numbers and platform information

- 1 Go to <http://www.info.teradata.com/>.
- 2 Click **General Search** under **Online Publications**.
- 3 Type *3119* in the **Publication Product ID** box.
- 4 Under **Sort By**, select **Date**.
- 5 Click **Search**.
- 6 Open the version of the *Teradata Tools and Utilities ##.# Supported Platforms and Product Versions* spreadsheet associated with this release.

The spreadsheet includes supported Teradata Database versions, supported platforms, and product version numbers.

## Product Bundling

The majority of Teradata Tools and Utilities 13.0 programs are packaged and distributed on CDs and/or magnetic tape cartridges. However, OLE DB Provider is available only from the Download Center and is *not* available on CD or on magnetic tape cartridge.

The following products are available from the Download Center at [Teradata.com](http://Teradata.com). Click **Support Services>Download Center**.

- .NET Data Provider for Teradata (new to the CD this release)
- ODBC Driver for Teradata
- OLE DB Provider for Teradata
- Teradata Access Modules
- Teradata CLIV2 for NAS
- Teradata Generic Security Services (GSS) for Java
- Teradata GSS
- Teradata International Components for Unicode (ICU)
- Teradata JDBC Driver

### CDs and Magnetic Tape Cartridges

In the following sections, headings show the name and number of the product CD or magnetic tape cartridge. The section lists the contents of the CD.

Some CDs contain dependency products required by one or more of the primary products on that CD. Products included as a dependency may be limited to specific operating systems on that CD. To install A product on all supported operating systems, use the CD on which the product is listed as a primary product.

## **Teradata Utility Pack—Utilities (BCD0-1190-0000)**

Teradata Utility Pack tool are distributed on a three-CD set:

- CD1 is for Microsoft® Windows® operating systems
- CD2 is for Hewlett-Packard® HP-UX and Linux operating systems
- CD3 is for IBM® AIX® and Sun® Solaris® operating systems

The Teradata Utility Pack—Utilities CD provides a wide base of user tools to connect network-attached applications to Teradata Database:

- Teradata Data Connector 13.0
- Named Pipes Access Module 13.0
- .NET Data Provider for Teradata 13.0
- ODBC Driver for Teradata 13.0
- Teradata CLIV2 13.0
- Teradata GSS 13.0
- Teradata ICU 13.0
- Teradata JDBC Driver 13.0

The Teradata Utility Pack—Utilities CD also provides some database and query management tools:

- BTEQ 13.0
- Teradata Administrator 13.0
- Teradata SQL Assistant 13.0
- Teradata SQL Assistant/Web Edition 13.0

## **Database Management (BCD0-1195-0000)**

The Database Management CD provides database and query management tools you can use to control access to, analyze the performance of, and improve the efficiency of the queries run against your Teradata Database. These tools also feature online help systems.

- Teradata DWM 13.0
- Teradata Index Wizard 13.0
- Teradata Manager 13.0
- Teradata Performance Monitor 13.0
- Teradata QS 13.0
- Teradata Statistics Wizard 13.0
- Teradata SET 13.0

- Teradata VE 13.0
- Teradata WA 13.0

Dependencies:

- BTEQ 13.0
- Teradata Data Connector 13.0
- ODBC Driver for Teradata 13.0
- Teradata CLIv2 13.0
- Teradata GSS 13.0
- Teradata ICU 13.0

## Load/Unload (BCD0-1192-0000)

Teradata load and unload utilities are distributed on a three-CD set:

- CD1 is for Microsoft Windows operating systems
- CD2 is for Hewlett-Packard HP-UX and Linux operating systems
- CD3 is for IBM AIX and Sun Solaris operating systems

The Load/Unload CD provides the following Teradata products used to load and unload data on your Teradata Database:

- Named Pipes Access Module 13.0
- OLE DB Access Module 13.0
- Teradata Data Connector 13.0
- Teradata FastExport 13.0
- Teradata FastLoad 13.0
- Teradata MultiLoad 13.0
- Teradata TPump 13.0
- Teradata WebSphere MQ Access Module 13.0

Dependencies:

- BTEQ 13.0
- ODBC Driver for Teradata 13.0
- Teradata CLIv2 13.0
- Teradata GSS 13.0
- Teradata ICU 13.0

**Note:** Teradata Access Module for JMS is not included on the product installation CDs. Teradata Access Module for JMS 13.0 will be available from the Download Center at [Teradata.com](http://Teradata.com) in Q4 2009.

## Teradata Parallel Transporter (BCD0-1193-0000)

Teradata PT and Teradata PT API are distributed on a three-CD set:



- CD1 is for Microsoft Windows operating systems
- CD2 is for Hewlett-Packard HP-UX and Linux operating systems
- CD3 is for IBM AIX and Sun Solaris operating systems

The Teradata PT CD contains the entire Teradata PT suite of products used to load and unload data on your Teradata Database in the following six packages:

- Teradata PT API 13.0
- Teradata PT Infrastructure 13.0
- Teradata PT Export Operator 13.0
- Teradata PT Load Operator 13.0
- Teradata PT Stream Operator 13.0
- Teradata PT Update Operator 13.0

Dependencies:

- Named Pipes Access Module 13.0
- Teradata WebSphere MQ Access Module 13.0
- Teradata CLIV2 13.0
- Teradata GSS 13.0
- Teradata ICU 13.0

## **Meta Data Services (BCD0-1196-0000)**

This CD contains Teradata Meta Data Services (MDS) 13.0, which provides a set of object-oriented Application Programming Interfaces (APIs) that can be used to:

- Create application information metamodels (AIMs) that define how metadata is stored in an MDS repository.
- Add, update, and delete metadata objects and collections in an MDS repository.

Teradata MDS also includes a set of utilities and GUIs that provide the infrastructure for a metadata repository.

## **Preprocessors (BCD0-1191-0000)**

Teradata Preprocessors are distributed on a three-CD set:

- CD1 is for Microsoft Windows operating systems
- CD2 is for Hewlett-Packard HP-UX and Linux operating systems
- CD3 is for IBM AIX and Sun Solaris

The Preprocessors CD provides the Teradata tools needed for accessing your Teradata Database with Teradata SQL statements in C or COBOL programs.

- Teradata COBOL PP2 13.0
- Teradata SQL C PP2 13.0

Dependencies:

- Teradata CLIV2 13.0
- Teradata GSS 13.0
- Teradata ICU 13.0

## Query Director (BCD0-1197-0000)

This CD contains Teradata QD, a program used to route sessions for high availability purposes.

Dependencies:

- Teradata CLIV2 13.0
- Teradata GSS 13.0
- Teradata ICU 13.0

## Tape Storage Management Enablers (BCD0-1194-0000)

Beginning with this release, Teradata Access Module for Tivoli® has been renamed Tivoli Storage Manager Teradata Extension, and the product is not included on the Tape Storage Management Enablers CD. It was released with the Teradata Tiered Archive and Restore Architecture (TARA) 13.0

This CD contains Teradata ARC 13.0, which provides Teradata backup and restore functions.

Dependencies:

- Teradata Data Connector 13.0
- ODBC Driver for Teradata 13.0
- Teradata SQL C PP2 13.0
- Teradata CLIV2 13.0
- Teradata GSS 13.0
- Teradata ICU 13.0

## Magnetic Tape Cartridges

Magnetic tape cartridges are released in two formats with different BCD numbers: IBM z/OS® and z/VM®.

### Teradata Tools and Utilities 13.0 for IBM z/OS (MVS)

- 3480 format: BCD0-1070-0000
- 3590 format: BCD0-1071-0000
- 9840 format: BCD0-1072-0000

### Teradata Tools and Utilities 13.0 for IBM z/VM

- 3480 format: BCD0-1068-0000
- 3590 format: BCD0-1069-0000

# Product Installation

This section provides installation notes for Teradata Tools and Utilities products. All Teradata Tools and Utilities installation packages were updated to support the current release.

## E-Fix Updates

To ensure the highest quality and best performance of Teradata Tools and Utilities products, the most recent, critical, post-production updates can be downloaded from the Teradata Software Server at: <http://tssprod.teradata.com:8080/TSFS/home.do>.

## Release Notes

### Documentation Updates

Last-minute changes were added to *Teradata Tools and Utilities Installation Guide for UNIX and Linux*. An updated version is available at <http://www.info.teradata.com/>.

### SCEERUN Library on IBM z/OS

Teradata Tools and Utilities applications running on IBM z/OS require the IBM Language Environment *SCEERUN* library. If that library is not available in the MVS linklist, it must be included in the JOBLIB concatenation for any job or in the STEPLIB concatenation for any job step running a Teradata Tools and Utilities application.

### Manual Install for Teradata WebSphere MQ Access Module

On Hewlett-Packard HP-UX 11i v2 (11.23) and 11i v3 (11.31) with Intel® Itanium®, Teradata WebSphere MQ Access Module cannot be automatically installed using the Load/Unload installation CD. Several libraries must be manually copied to your PC from the */HP-UX/mqaxsmo/ia64* directory on the Load/Unload installation CD.

Before copying the libraries, ensure the following Teradata WebSphere MQ Access Module product dependencies have been installed in the correct order.

- Teradata Data Connector 13.0
- IBM WebSphere® MQ 5.2 (HP-UX)

[Table 3](#) lists the libraries and the corresponding directories where the library must be copied. An asterisk (\*) after a file name indicates a “softlink” for files located in this directory: */opt/teradata/client/<version>/hpux64*.

Table 3: Teradata WebSphere MQ Access Module Libraries

Copy this library...	To this directory...
<i>libmq5.so*</i>	<i>/usr/lib/hpux64</i>
<i>libmqsc.so*</i>	<i>/usr/lib/hpux64</i>
<i>libmq5.so</i>	<i>/opt/teradata/client/&lt;version&gt;/hpux64</i>

Table 3: Teradata WebSphere MQ Access Module Libraries (continued)

Copy this library...	To this directory...
<i>libmqsc.so</i>	<i>/opt/teradata/client/&lt;version&gt;/hpux64</i>

### Teradata CLIV2 for NAS Sun Solaris Makefiles

When Teradata CLIV2 for NAS is installed on Sun Solaris with AMD® Opteron™, Solaris SPARC makefiles are incorrectly copied to the */opt/teradata/client/13.0/sample* directory. They must be replaced with the Solaris Opteron makefiles listed in [Table 4](#).

Table 4: Teradata CLIV2 for NAS Sun Solaris Makefiles

Replace this Solaris SPARC makefile...	With this Solaris Opteron makefile...
<i>makesamp.sols</i>	<i>makesamp.soli386</i>
<i>makesamp.sols64</i>	<i>makesamp.solx8664</i>
<i>maketdusr.sols</i>	<i>maketdusr.soli386</i>
<i>maketdusr.sols64</i>	<i>maketdusr.solx8664</i>

**Note:** The Solaris Opteron e-fixes can be downloaded from the Teradata Software Server at: <http://tssprod.teradata.com:8080/TSFS/home.do>.

### General Enhancements

- Teradata Tools and Utilities are now installed in the following new default directories:
  - On UNIX operating systems:  
*/opt/teradata/client/<version>*
  - On Windows operating systems:  
*C:\ProgramFiles\Teradata\Client\<version>*

This new tree structure brings all Teradata Tools and Utilities for 13.0 under a single sub-directory.

- In path and file locations, references to “NCR” were changed to “Teradata.”
- Teradata PT installation packages were reduced to six to streamline installation.

### Enhancements for UNIX Operating Systems

- Except for Teradata ARC, Teradata DUL, and Teradata DUL/T, Teradata Tools and Utilities installation package names now include the version number; for example, bteq130, cliv2130, and piom130.
- To avoid a name conflict on Novell® SUSE® Linux Enterprise 9, the Teradata ARC install package was renamed *teradata\_arc*.
- Except on systems where the microprocessor is different (Hewlett-Packard PA-RISC compared to Intel Itanium), both 32-bit and 64-bit versions of Teradata Tools and Utilities are included in a single installation package.

**Note:** 32-bit and 64-bit versions of Teradata GSS are still deployed in separate installation packages. Both versions must be installed before installing a Teradata Tools and Utilities application.

### Enhancements for Microsoft Windows Operating Systems

- Earlier versions of Teradata Tools and Utilities are now automatically removed before a new version is installed.
- ODBC Driver for Teradata, Teradata CLIV2, and shared Teradata ICU libraries are now basic Microsoft Installer (.msi) installation packages.
- 32-bit and 64-bit Teradata Tools and Utilities applications can coexist on systems with Intel EM64T.
- When the silent install process is used on systems with Intel EM64T, both the 32-bit and the 64-bit versions of a Teradata Tools and Utilities application are installed. When the interactive install process is used, only the 64-bit version of a Teradata Tools and Utilities application is installed.

### Tar Teradata Client Packages

System administrators can now create a single tar file that can transfer UNIX Teradata Client packages and dependencies from a Teradata Client Utilities UNIX media disk mounted on Windows or UNIX across the network. For full detail and script samples, see *Teradata Tools and Utilities Installation Guide for UNIX and Linux, B035-2459-088A*.

### Silent Installation and Upgrades of ODBC Driver for Teradata

On Windows, the standard way to do silent installation of ODBC Driver for Teradata (and other basic Microsoft Installer packages, such as Teradata Call-Level Interface v2 and Teradata ICU) is:

```
Setup /S /v"/qn"
```

However, some environments restrict the execution of standard setup.exe files. Such a scenario requires alternate installation methods. Therefore, if you cannot run the standard setup.exe to install or upgrade ODBC Driver for Teradata, do the following:

- New installation - For a new silent installation, use the following command:  

```
Msiexec /I "ODBC Driver for Teradata.msi" /qn
```
- Upgrade - To do a silent install that upgrades ODBC Driver for Teradata 13.0 from a previous version, use the following command:  

```
Msiexec /I "ODBC Driver for Teradata.msi" /qn REINSTALL=ALL  
REINSTALLMODE=voums
```

## Documentation

*Teradata Tools and Utilities Installation Guide for IBM z/OS,*  
B035-2458-088A

*Teradata Tools and Utilities Installation Guide for IBM z/VM,*  
B035-2422-088A

*Teradata Tools and Utilities Installation Guide for Microsoft Windows,*  
B035-2407-088A

*Teradata Tools and Utilities Installation Guide for UNIX and Linux,*  
B035-2459-088A

## Requests for Change

Requests for Change (RFCs) introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software. Product installation changes and RFCs indicating support for new operating systems are listed in the individual product sections in [Chapter 2: “Product Information.”](#)

Table 5: Installation RFCs

RFC	Description
100701	The 32-bit version and the 64-bit version of ODBC Driver for Teradata can be installed and used on the same system.
115012	<b>Documentation Only</b> Improved instructions for silent installation were added to <i>Teradata Tools and Utilities Installation Guide for Microsoft Windows</i> .
117885 117886	On Microsoft Windows and UNIX operating systems, separate Teradata PT versions of the Teradata WebSphere MQ Access Module and the Named Pipes Access Module are no longer installed or required.
118876	<b>Documentation Only</b> The sequence for removing Teradata Tools and Utilities packages was added to <i>Teradata Tools and Utilities Installation Guide for UNIX and Linux</i> .
119854	As of this release, Teradata ARC is installed in a new directory: <ul style="list-style-type: none"> <li>• On Windows: C:\ProgramFiles\Teradata\Client\<i>&lt;version&gt;</i>\bin</li> <li>• On UNIX operating systems: /opt/teradata/client/<i>&lt;version&gt;</i>/bin</li> </ul>
121109	UNIX packages can now be easily transferred from Teradata Client Media to a specific UNIX platform by invoking a script to create a single tar file that includes all of the dependent packages and installation files that are necessary.  For full detail and script samples, see <i>Teradata Tools and Utilities Installation Guide for UNIX and Linux, B035-2459-088A</i> .
122435	<b>Documentation Only</b> Information about using the SCEERUN library was added to <i>Teradata Tools and Utilities Installation Guide for IBM z/OS</i> .
129225	.NET Data Provider for Teradata support was added to the Teradata Tools and Utilities 13.0 Windows main install

## Discrepancy Reports

Discrepancy Reports (DRs) track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 6: Installation DRs

DR	Description
113827	<b>Documentation Only</b> Installing Teradata Tools and Utilities applications can cause the Microsoft Windows path to overrun if the system PATH environment variable exceeds 1024 characters. A hotfix is available from Microsoft; see Tech Alert 1455 for details.
115305	<b>Documentation Only</b> <i>TeraGSS</i> was changed to <i>teragss</i> in directory paths for commands in <i>Teradata Tools and Utilities Installation Guide for UNIX and Linux</i> .
115983	32-bit and 64-bit ODBC Driver for Teradata can now be silently installed on IBM AIX.
117853	<b>Documentation Only</b> <i>Teradata Tools and Utilities Installation Guide for UNIX and Linux</i> incorrectly stated that the swap space needed to be equal to the memory size plus 2 G on Linux operating systems. <i>Teradata Tools and Utilities Installation Guide for UNIX and Linux</i> was corrected to indicate that the swap space needs to be equal to only the memory size on Linux operating systems.
117962	<b>Documentation Only</b> A typographical error in a command to TRDTMTDP was corrected in <i>Teradata Tools and Utilities Installation Guide for IBM z/OS</i> .
118343	<b>Documentation Only</b> The LANG and LC__FASTMSG environment variables are now documented in <i>Teradata Tools and Utilities Installation Guide for UNIX and Linux</i> .
118793	<b>Documentation Only</b> To match standard IBM nomenclature, applicable references to MVS were changed to z/OS and references to VM to were changed z/VM in <i>Teradata Tools and Utilities Installation Guide for IBM z/OS</i> .
118926	<b>Documentation Only</b> Use of the NOSWAP and NOPREF parameters was clarified in <i>Teradata Tools and Utilities Installation Guide for IBM z/OS</i> .
122111	<b>Documentation Only</b> Instructions for installing the Teradata Manager Server and Teradata Manager Client components were updated in <i>Teradata Manager Installation Guide</i> .
122470	Windows Server 2003 operating systems must be shut down and restarted to apply Teradata Tools and Utilities 13.0 upgrades.
126152	Teradata FastLoad was not using the main install directory path when it was installed from the <i>Teradata for Windows Load and Unload CD</i> . This error no longer occurs.
126914	Teradata Tools and Utilities setup scripts for Linux were failing with a “unable to execute./setup.sh: No such file or directory” error message. This error no longer occurs.

Table 6: Installation DRs (continued)

DR	Description
128225	An InstallShield bug caused entries in the silent response file to be ignored, resulting in the selection of all defined features, which caused .NET Data Provider for Teradata to try to run utilities that might not be present. The silent install process now works as expected.
128351	A subdirectory for Teradata Named Pipes Access Module is now correctly added to the <i>SOFTWARE\Teradata\Certlist</i> directory at installation.
128388	A subdirectory for Teradata FastExport is now added to the <i>SOFTWARE\Teradata\Certlist</i> directory at installation.
128389	A subdirectory for Teradata FastLoad is now added to the <i>SOFTWARE\Teradata\Certlist</i> directory at installation.
128350	A subdirectory for Teradata Websphere MQ Access Module is now correctly added to the <i>SOFTWARE\Teradata\Certlist</i> directory at installation.
128860	The installation of Teradata PT does not add curly braces around the PATH, NLSPATH, or library path environment variables in the system login files, which broke the shell on the AIX operating system. The installation process now adds curly braces, as needed.
130398	During installation, the list of dependent applications was incomplete. The list is now complete.
130470	BTEQ was unnecessarily removing the entire CertList key in the Registry during an upgrade or uninstall. The error no longer occurs.
130492	A subdirectory for Teradata OLE DB Access Module is now added to the <i>SOFTWARE\Teradata\Certlist</i> directory at installation.
130558	Teradata DataConnector was unnecessarily removing the entire CertList key in the Registry during an upgrade or uninstall. The error no longer occurs.
130647	A subdirectory for Teradata MultiLoad is now correctly added to the <i>SOFTWARE\Teradata\Certlist</i> directory at installation.
130802	A subdirectory for Teradata MultiLoad is now correctly added to the <i>SOFTWARE\Teradata\Certlist</i> directory at installation.
132103	The installation of Teradata TPump removed registry entries under HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall key, which prevented the ability to uninstall packages after installing TPump. The problem no longer occurs.
131753	Teradata TPump sometimes mishandled VARGRAPHIC FIELDS in unformatted files, which caused the application to terminate. The problem no longer occurs.



## CHAPTER 2

# Product Information

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This chapter provides the following information about each of the products, database tools, and utilities included in Teradata Tools and Utilities Release 13.0:

- Product versions certified with this release
- Supported versions of Teradata Database
- Documentation associated with the product
- Miscellaneous release notes
- Requests for change (RFCs) and discrepancy reports (DRs) associated with each product for this release

To ensure the highest quality and best performance of Teradata Tools and Utilities products, the most recent, critical post-production updates can be downloaded from the Teradata Software Server at: <http://tssprod.teradata.com:8080/TSFS/home.do>

## Product Discontinuances

As of this release, Teradata Tools and Utilities are no longer supported on NCR® MP-RAS.

Support for Teradata Dump Load/Unload (DUL) on IBM z/OS (MVS) and z/VM operating systems is being discontinued effective with this release.

Teradata MultiTool is being discontinued effective with this release.

## Product Versions

Product version numbers for Teradata Tools and Utilities were changed to 13.0, except for the following:

- Host Utility Consoles (HUTCNS)
- Interactive Teradata Query (ITEQ)
- Symantec™ Netbackup™ Extension for Teradata

## Product Compatibility

You cannot mix multiple releases of any Teradata Tools and Utilities applications on the same client PC. For example, you cannot run OLE DB Provider 13.0 with Teradata CLIv2 12.0 on the same client PC.

All Teradata Tools and Utilities products invoked on a system must be from the same base release. For example, if you upgrade to Teradata MultiLoad 13.0, you must also upgrade the product dependencies (such as Teradata CLIV2, Teradata GSS, and Teradata ICU) to the Teradata Tools and Utilities 13.0 version.

See *Teradata Tools and Utilities 13.0 Supported Platforms and Product Versions* to identify compatible products.

## Basic Teradata Query Utility

BTEQ utility is a general-purpose, command-based program that allows workstation users to communicate with one or more Teradata Database systems and format reports for print and monitor output.

### Product Version Number

BTEQ 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Basic Teradata Query Reference*,  
B035-2414-088A

### Release Notes

#### ActivityCount Variable and Notify Exit Routines

The data type for the ActivityCount returned by BTEQ was changed from Int32 (signed 32-bit integer) to UInt32 (unsigned 32-bit integer). If you are using the *ActivityCount* variable in a notify exit routine, you must change the print specifier for the ActivityCount variable to %u, and then recompile the routine.

#### Unicode Support Limitations

Expression substitutions (&n) within a **HEADING**, **FOOTING**, or **RTITLE** command are restricted to LATIN1 characters when using UTF8 and UTF16 session character sets with BTEQ on IBM z/OS.

**Note:** UTF8 and UTF16 session character sets are *not* supported with BTEQ on IBM z/VM.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 7: BTEQ RFCs

RFC	Description
58020	<p><b>Documentation Only</b></p> <p>The examples for using the <b>LOGON</b> command in interactive mode were expanded to improve usability. See Examples 1 and 2 in the “Using the Optional acctid Identifier” section under the <b>LOGON</b> command in <i>Basic Teradata Query Reference</i>.</p>
69180	<p><b>Documentation Only</b></p> <p>Obsolete information and AXSMOD examples for the Tape Access Module were removed from <i>Basic Teradata Query Reference</i>.</p>
87376	<p><b>Documentation Only</b></p> <p><i>Basic Teradata Query Reference</i> was updated to more accurately describe initial and assumed defaults in BTEQ commands.</p>
93225	<p><b>Documentation Only</b></p> <p><i>Basic Teradata Query Reference</i> incorrectly stated that the ERRORLEVEL is reset to zero after a successful request. The information on ERRORLEVEL handling was corrected in <i>Basic Teradata Query Reference</i>.</p>
90037	See <a href="#">“ActivityCount Variable and Notify Exit Routines”</a> on page 26.
98374	UTF16 scripts without a Byte Order Mark (BOM) can be used for workstation BTEQ input. BTEQ checks the input file for a UTF16 or UTF8 BOM and automatically changes the session character set to the appropriate Unicode encoding.
102430	<p>Previously, when the BOM and NOBOM options were used with a <b>MESSAGEOUT</b> command from BTEQ running on a mainframe operating system, a syntax error was generated. Now, BTEQ prints a warning message indicating that the BOM/NOBOM options are not supported for <b>MESSAGEOUT</b> on mainframe operating systems.</p> <p><b>Note:</b> The BOM and NOBOM options are valid for UNICODE character sets only. Because EBCDIC is the default character set for mainframe operating systems, the BOM and NOBOM options are invalid.</p> <p>See <i>Basic Teradata Query Reference</i> for details.</p>
102433	Previously on IBM z/OS, a BOM was not inserted at the beginning of a REPORT export file. Now, a BOM is inserted at the beginning of <b>REPORT</b> and <b>DIF</b> export files produced from UTF8 and UTF16 sessions. For more information, see <i>Basic Teradata Query Reference</i> .
102473	Previously, BTEQ did not display <b>SHOW</b> and <b>COMMENT</b> results correctly for UTF8 and UTF16 session character sets. BTEQ was modified and now correctly displays <b>SHOW</b> and <b>COMMENT</b> results for UTF8 and UTF16 session character sets.
102477	On IBM z/OS, BTEQ supports using DIF (Data Interchange Format) with the <b>EXPORT</b> command and UTF16 session character sets.
102478	See <a href="#">“Unicode Support Limitations”</a> on page 26.

Table 7: BTEQ RFCs (continued)

RFC	Description
102484	On IBM z/OS, BTEQ supports creating stored procedures using the <b>COMPILE</b> command with UTF8 and UTF16 session character sets.
104659	The formatting of field mode reports is no longer based on bytes for UTF8 sessions. A new <b>REPORTALIGN</b> command is used to control UTF8 alignment. For example, spacing between columns and WIDTH truncation may not be the same as past releases. See <i>Basic Teradata Query Reference</i> for more information.
109593	<b>Documentation Only</b> Usage Note were added to the <b>RETRY</b> command regarding the Error 2631 failure code. For details, see <i>Basic Teradata Query Reference</i> .
111025	BTEQ running on mainframe operating systems does not support carriage control characters in Unicode <b>REPORT</b> and <b>DIF</b> export files. BTEQ was modified so that an <b>EXPORT</b> command fails when parsed instead of causing an <code>Open failed on file</code> error when a subsequent <b>SELECT</b> command is executed. For more information, see the <b>EXPORT</b> command in <i>Basic Teradata Query Reference</i> .
111088	BTEQ does not support embedded control characters within quoted strings for SQL requests. Examples of unsupported control characters include a null, carriage return, or line feed character. See <i>Basic Teradata Query Reference</i> for details.
114222	The <b>SHOW VERSIONS</b> command was updated to exclude output for the revision levels for BTEQ/CAP source files (.C and .H) and CLI/PIOM source files (.C). For more information, see <i>Basic Teradata Query Reference</i> .
114483	<b>Documentation Only</b> Instructions for using the <b>REPEAT</b> command to establish the same query band for multiple sessions were added to <i>Basic Teradata Query Reference</i> .
114709	The Teradata Database table header size was expanded to 1 MB. The BTEQ <b>RETLIMIT</b> command was enhanced to allow more than 2048 columns to be selected. See <i>Basic Teradata Query Reference</i> for details.
114700	When a Large Object (LOB) column is associated with an <i>AS DEFERRED BY NAME</i> qualifier in the USING clause of an <b>IMPORT</b> command, Teradata Database solicits the value using ElicitDataByName protocol. In deferred-mode, BTEQ supports loading of LOB values using the ElicitDataByName Protocol.
114986	BTEQ supports the Teradata Database replication group rule set feature. BTEQ recognizes SQL activities associated with the use of DDL for this feature. BTEQ displays a meaningful result message when users have successfully created, replaced, or dropped replication rule sets.  DDL replication allows utility type names and escape sequences to be expanded in SQL statements containing the AS USER prefix.
115382	<i>LOBCOLS</i> and <i>TOTCOLS</i> options were added to the <b>IMPORT</b> command to support loading of LOB values using the ElicitData protocol on non-Unicode sessions.  In deferred-mode, BTEQ does not support LOB loading using Unicode session character sets on mainframe operating systems.  See <i>Basic Teradata Query Reference</i> for details.

Table 7: BTEQ RFCs (continued)

RFC	Description
119494	BTEQ now displays a confirmation or failure message in response to Java XSP statements related to class dependencies on other jar classes.
119535	<b>Documentation Only</b> Users are responsible for correctly describing the input data in a <i>USING</i> modifier in an <b>IMPORT</b> command. This warning is now documented in <i>Basic Teradata Query Reference</i> .
120621	<b>Documentation Only</b> VARTEXT import rules for workstation operating systems were added to <i>Basic Teradata Query Reference</i> .

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 8: BTEQ DRs

DR	Description
47626	The <b>TDP</b> command does not accept hyphen or dash characters. Support for and restrictions applying to TDP values in both non-quoted form and quoted forms are now documented under the <b>TDP</b> command in <i>Basic Teradata Query Reference</i> .
59698	<b>Documentation Only</b> In <i>Basic Teradata Query Reference</i> , a leading period was incorrectly shown in the following <b>IF...THEN...</b> command example: <pre>ECHO ' IF ERRORCODE = 3000 THEN .REMARK ''Next'' ' ;</pre> That error was corrected.
113481	On IBM z/OS, BTEQ incorrectly decreased stdout WIDTH for UTF16 session character sets. BTEQ was modified and this behavior no longer occurs. See the <b>EXPORT</b> command in <i>Basic Teradata Query Reference</i> for details.
117411	Empty RUN files encountered while using the RUN command were incorrectly handled. A run-terminating error should result if an empty RUN file is encountered. BTEQ was modified and this error no longer occurs.
125943	For UTF8 workstation sessions, date and time fields were not properly padded when multi-byte characters appeared in the output for different REPORTALIGN settings. This problem no longer occurs.
126117	BTEQ was not using the main install directory path when being installed from the <i>Teradata for Windows Load and Unload CD</i> . This error no longer occurs
127873	BTEQ incorrectly reported an error when displaying non-Unicode multi-byte column titles greater than 60 bytes. The limit for non-Unicode column titles is now 60 bytes.

## IBM CICS Interface for Teradata

The IBM Customer Information Control System (CICS) Interface for Teradata allows CICS macro (1.7 and 2.1 only) or command level (1.7 and later) application programs to access Teradata Database resources.

### Product Version Number

CICS Interface for Teradata 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*IBM CICS Interface for Teradata Reference*,  
B035-2448-088A

### Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software. There are no RFCs for this product for this release.

### Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates. There are no DRs for this product for this release.

## IBM IMS Interface for Teradata

The IBM Information Management System (IMS) Interface for Teradata allows IMS programs executing in an IMS BATCH, BMP (Batch Message Program), or MPP (Message Processing Program) region to access data from Teradata Database.

### Product Version Number

IMS Interface for Teradata 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0

- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*IBM IMS/DC Interface for Teradata Reference,*  
B035-2447-088A

## Release Notes

None.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software. There are no RFCs for this product for this release.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates. There are no DRs for this product for this release.

# Interactive Teradata Query Utility

Interactive Teradata Query (ITEQ) includes extensions to Teradata SQL that process Teradata SQL statements interactively without having to develop application software. A user at a terminal attached to a client computer can use the ITEQ interface to interact directly with Teradata Database.

## Product Version Number

ITEQ 06.00.02

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Interactive Teradata Query Reference,*  
B035-2451-088A

*Interactive Teradata Query User Guide,*  
B035-2452-088A

## Release Notes

None.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software. There are no RFCs for this product for this release.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates. There are no DRs for this product for this release.

# ODBC Driver for Teradata

The Open Database Connectivity (ODBC) Driver for Teradata enables Microsoft Windows and UNIX operating systems to communicate with the Teradata Database across local area networks (LANs) using the open standard ODBC interface.

## Product Version Number

ODBC Driver for Teradata 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*ODBC Driver for Teradata User Guide,*  
B035-2509-088A



## Release Notes

### Unicode on UNIX and Linux

The Unicode encoding can be changed from the default of UTF-8 to UTF-16 by doing the following:

- 1 Define SQLSHORT:

```
#define SQLWCHARSHORT
```

- 2 Set the SQL\_ATTR\_APP\_UNICODE\_TYPE environment attribute to SQL\_DD\_CP\_UTF16:

```
// Specify the unicode encoding for the application. SQL calls and
// data are both affected. No other environment variables or
// connection options (includeing DSN options) are needed.
rc = SQLSetEnvAttr(m_henv, SQL_ATTR_APP_UNICODE_TYPE,
(void *) SQL_DD_CP_UTF16, SQL_IS_INTEGER);
```

**Note:** If possible, use the **SQLWCHAR** ODBC type for Unicode strings instead of **wchar\_t** because **SQLWCHAR** and **wchar\_t** are not always the same type on all operating systems.

### Exception to Length Arguments for Unicode ODBC Functions

The ODBC Driver for Teradata User Guide, B035-2509, currently states the following:

“When a length (transfer size of the data) could refer to string or non-string data, the length is described in octet lengths...This means that if the argument in question describes the length of another argument that is always a string (typically represented as a SQLCHAR), then the length reflects the number of characters in the string.”

The exception to the above rule is for UNIX applications that use UTF-8 encoding. For these applications, all lengths are in bytes.

For more information about length arguments, go to <http://support.microsoft.com/kb/294169/en-us>.

### LIBPATH Environment Variable

On AIX platforms, ODBC Driver for Teradata has minimized the value path that needs to be set in the LIBPATH environment variable for the runtime environment. The LIBPATH values for the 32-bit and 64-bit ODBC Drivers are:

- 32-bit export LIBPATH: */opt/teradata/client/ODBC\_32/lib*
- 64-bit export LIBPATH: */opt/teradata/client/ODBC\_64/lib*

### Directory Migration

Teradata Tools and Utilities 13.0 introduces a new directory structure. In response, ODBC Driver for Teradata 13.0 provides scripts that allow previous versions to operate without impact.

If previous releases of ODBC Driver for Teradata were installed in the default directory, no migration is required. However, if a non-default directory was used, you must run one of the following scripts. See the ODBC Driver for Teradata *readme.txt* file for complete instructions.

- **Retain legacy structure** - Run the *enable\_legacy\_installdir* script to allow legacy *.ini* files to work in the new directory structure. The script emulates the legacy directory structure and allows you to customize the *odbc.ini* and *odbcinst.ini* files.
- **64-bit Driver** - Run the *enable\_legacy\_installdir* script if you installed a previous 64-bit version of ODBC Driver for Teradata in */usr/odbc*, regardless of whether you use the default directory or a non-default directory.
- **Migrate to new structure** - Run the *convert.ini* script to completely convert legacy *.ini* files to the new installation directory.
- **Switch between versions** - After running *convert.ini*, no further file migration should be needed. However, future releases might create the need to switch between multiple releases. In that case, run the *set\_default\_version* script to migrate to a release-independent directory that allows for the switching between versions.

The scripts are available in the *odbc\_32* and *odbc\_64* directories after ODBC Driver for Teradata 13.0 is installed.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 9: ODBC Driver for Teradata RFCs

RFC	Description
67684	ODBC Driver for Teradata on Sun Solaris with SPARC® supports <i>-compat=5</i> and <i>iostream</i> options.
96311	ODBC DSN trace entries are now time stamped.
96376	<b>Documentation Only</b> ODBC DSN option descriptions were added to <i>ODBC Driver for Teradata User Guide</i> .
99825	LDAP (Lightweight Directory Access Protocol) authentication has been integrated into the <b>Teradata Database Connect</b> dialog box. See <i>ODBC Driver for Teradata User Guide</i> for details on the new dialog box options.
108139	ODBC Driver Manager was upgraded to version 5.3.
111221	ODBC Driver for Teradata online help is now provided in HTML format.
115298	ODBC Driver for Teradata supports the new Teradata Database 13.0 PERIOD data types. A PERIOD data type has two values that represent the start and end of the period.
115542	ODBC Driver for Teradata supports Teradata Database geospatial SQL data types. <b>Note:</b> LOB support must be enabled.
115599	ODBC Driver for Teradata supports scalar sub-queries. Scalar sub-queries are supported everywhere a value expression is allowed compliant to ANSI syntax.
115600	ODBC Driver for Teradata supports the Teradata Database DDL replication feature. DDL replication allows utility type names and escape sequences to be expanded in SQL statements containing the AS USER prefix.

Table 9: ODBC Driver for Teradata RFCs (continued)

RFC	Description
115601 121658	ODBC Driver for Teradata supports RESET WHEN syntax for window functions.
115602	ODBC Driver for Teradata supports the STATISTICS privilege required by the Qualified Statistics feature.
115607	ODBC Driver for Teradata supports the following Teradata Database 13.0 keywords: CONDITION, CTCONTROL, CURRENT_ROLE, GEOSEQUENCE, MBR, OLD_NEW_TABLE, RESET, RESIGNAL, SIGNAL, ST_GEOMETRY, and THROUGH.
120485	64-bit ODBC Driver for Teradata is supported on Hewlett-Packard HP-UX with Hewlett-Packard PA-RISC.
120634	ODBC applications can now find and use the DBS SHOW privilege in SQLTablePrivileges.
121092	RESET is no longer a reserved word, so it can now be used as an object name in ODBC Driver for Teradata.
121156	ODBC Driver for Teradata supports the use of tables without primary indexes (NoPI tables).
124878	New shortcuts were added to the <b>Start &gt; Programs</b> menu to help differentiate between 32-bit and 64-bit versions of ODBC Driver for Teradata.
124879	ODBC Administrator now offers the same options for 64-bit as for 32-bit.
127594	PERIOD is no longer a reserved word, so it can now be used as an object name in ODBC Driver for Teradata.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 10: ODBC Driver for Teradata DRs

DR	Description
93327	Previously, certain rules mapped PRIMARY KEY to PRIMARY INDEX and visa versa in certain circumstances, which resulted in invalid syntax seeming to be valid. The confusing mapping rules have been removed.
114167	On UNIX, the SQLWithCommentsOrParenthesis=[Yes   No] keyword option has a default of No. This option is applicable only to SQLExecDirect. See <i>ODBC Driver for Teradata User Guide</i> for details.
114384	Previously, ODBC Driver for Teradata incorrectly swapped the DSN and DRIVER keywords in a connection string when the DRIVER keyword appeared first without a trailing space. ODBC Driver for Teradata was modified and this error no longer occurs.

Table 10: ODBC Driver for Teradata DRs (continued)

DR	Description
114662	On Novell® SUSE® Linux Enterprise, ODBC Driver for Teradata failed to connect to Teradata Database when a UserID was not supplied. ODBC Driver for Teradata was modified and this error no longer occurs.
115699	<b>Documentation Only</b> The “DateTimeFormat Compatibility and Precision” section of <i>ODBC Driver for Teradata User Guide</i> was corrected to indicate fractional truncation from SQL_TIMESTAMP to SQL_C_TIME is not silent.
115763	<b>Documentation Only</b> When the ColumnSize or DecimalDigits are outside the range of values supported by the data source for a column in the SQL data type specified by the ParameterType argument, ODBC Driver for Teradata truncates the data bound to the parameter and displays a warning during execution. For more information, see <i>ODBC Driver for Teradata User Guide</i> .
116045	ODBC Driver for Teradata incorrectly ignored DSN attributes passed while creating a DSN using the installer API SQLConfigDataSource(). ODBC Driver for Teradata was modified and this error no longer occurs.
119285	Please refer to the ODBC Driver for Teradata product ReadMe files for instructions on specifying the correct compiler options when compiling a 64-bit application on UNIX operating systems.
121774	When a simplified Kanji logon was used with LDAP and the authentication parameter was empty, the logon attempt failed. ODBC Driver for Teradata was modified and this error no longer occurs.
126772	ODBC Driver for Teradata was not using the main install directory path when it was installed from the <i>Teradata for Windows Load and Unload CD</i> . This error no longer occurs.
127130	ODBC Driver for Teradata was sending incorrect parameter data records to the database for every SQL_PARAM_PROCEED row followed by one or more SQL_PARAM_IGNORE rows. This error no longer exists.
131886	The online Help files now install properly on all System Locales.

## OLE DB Provider for Teradata

The OLE DB Provider for Teradata allows OLE DB-based applications to access Teradata Database. The OLE DB specification is an API based on Component Object Model (COM) technology. The OLE DB API is supported only on Microsoft Windows operating systems.

### Product Version Number

OLE DB Provider for Teradata 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*OLE DB Provider for Teradata Installation and User Guide*,  
B035-2498-088A

## Release Notes

### Documentation Updates

Minor, last-minute changes were added to *OLE DB Provider for Teradata Installation and User Guide*. An updated version is available at <http://www.info.teradata.com/>.

### Version Incompatibility

After OLE DB Provider for Teradata 13.0 has been installed, *do not* install any other version of OLE DB Provider for Teradata. Doing so makes OLE DB Provider for Teradata 13.0 unusable even though it appears that two versions have been correctly installed. OLE DB Provider for Teradata 13.0 must be the only version of that software on a single client system.

If OLE DB Provider for Teradata 13.0 becomes unusable because an earlier version of OLE DB Provider for Teradata was installed, remove OLE DB Provider for Teradata 13.0 and reinstall it. Installing OLE DB Provider for Teradata 13.0 automatically removes earlier versions.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 11: OLE DB Provider for Teradata RFCs

RFC	Description
93218	OLE DB Provider for Teradata correctly handles DECIMAL values when the user's default locale includes a decimal separator other than the PERIOD character. Changing the locale settings (specifically, the decimal separator) while the OLE DB Provider for Teradata is in use might cause erroneous values to be returned from OLE DB Provider for Teradata. For more information, see <i>OLE DB Provider for Teradata Installation and User Guide</i> .
105929	OLE DB Provider for Teradata supports the Unicode Data Dictionary.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 12: OLE DB Provider for Teradata DRs

DR	Description
87311	OLE DB Provider for Teradata includes a connection option to use column names instead of column titles. See <i>OLE DB Provider for Teradata Installation and User Guide</i> for more information.
120698	OLE DB Provider for Teradata was changed to remove trailing pad characters from INDEXES.COLUMN_NAME.
125893	OLE DB Provider for Teradata 13.0 failed to connect to Teradata Database if OLE DB Provider 12.0 had ever been installed. The connection now works correctly.

## Teradata Administrator

The Teradata Administrator provides a Windows®-based graphical interface to Teradata Database Data Dictionary and allows multiple database administration tasks on Teradata Database.

### Product Version Number

Teradata Administrator 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata Administrator User Guide*,  
B035-2502-088A

### Release Notes

None.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 13: Teradata Administrator RFCs

RFC	Description
115943	<b>Documentation Only</b> Information for retrieving User-Defined Type (UDT) data was added to <i>Teradata Administrator User Guide</i> .
118175	Teradata Administrator supports Teradata Database PERIOD and Geospatial data types.
118176	Teradata Administrator supports rules by Application Name for query logging.
118177	Access rights for Create Owner Procedure, Show, and Statistics were added to Teradata Administrator.
118178	Teradata Administrator includes SELECT and INSERT as additional column level access rights.
118180	Teradata Administrator supports the following new SQL syntax commands: <ul style="list-style-type: none"> <li>• <b>Create/Replace/Drop/Show Replication Ruleset</b></li> <li>• <b>Set Query_Band</b></li> <li>• <b>Set Subscriber</b></li> </ul> SQL syntax examples for Query Builder were updated to include the new SQL syntax.
124929	Teradata Administrator supports the Teradata Database no primary index (NoPI) tables feature.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 14: Teradata Administrator DRs

DR	Description
114794	<b>Documentation Only</b> <i>Teradata Administrator User Guide</i> states that data types used to define an identity column must be a 4 byte or less numeric type. This appeared to conflict with information in <i>Database Design</i> , which states that the largest size data type for defining an identity column is up to DECIMAL(18,0). <i>Teradata Administrator User Guide</i> was updated to clarify that the DECIMAL(18,0) is a 4 byte or less numeric type.
115880	<b>Documentation Only</b> When copying a table, Teradata Administrator copies the table structure only and does <i>not</i> copy data in the table. <i>Teradata Administrator User Guide</i> was updated with this information.

Table 14: Teradata Administrator DRs (continued)

DR	Description
121067	<b>Documentation Only</b> Two graphics for Query Builder were updated in <i>Teradata Administrator User Guide</i> .
130508	NoPI tables were not displayed in alphabetical order. The error no longer occurs.

## Teradata Access Modules

Teradata Access Modules are software components of the Teradata utility infrastructure that provide block-level I/O interfaces to data residing on a specific external data storage device. Each access module is tailored to a specific type of external data storage device and can be dynamically linked to one or more Teradata utilities.

### Product Version Number

Named Pipes Access Module 13.0

Teradata Access Module for JMS 13.0

Teradata Data Connector 13.0

Teradata OLE DB Access Module 13.0

Teradata WebSphere MQ Access Module 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata Tools and Utilities Access Module Reference*,  
B035-2425-088A

*Teradata Tools and Utilities Access Module Programmer Guide*,  
B035-2424-088A



## Release Notes

### Support for Teradata Tools and Utilities 13.0

Teradata Access Module for JMS is not included on the product installation CDs. Teradata Access Module for JMS 13.0 will be available from the Download Center at [Teradata.com](http://Teradata.com) in Q4 2009.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 15: Teradata Access Module RFCs

RFC	Description
100091	Access modules built for Teradata load and unload utilities also work with Teradata PT without any recompiling or relinking.
115851	Access Module installation packages include the Microsoft Visual C++ (x86) 8.0 merge module, which is required to run Teradata Tools and Utilities 13.0 applications.
115853	
115854	
115849	
115852	
<b>Named Pipes Access Module</b>	
113104	Version identification was incorporated into all source code.
<b>Teradata OLE DB Access Module</b>	
50683	Teradata OLE DB Access Module includes a <b>Save As</b> button to save scripts as text files with a variety of extensions.
53901	The <code>Ctrl+A</code> function can be used to select all data in a <b>Script</b> dialog box.
54819	Teradata OLE DB Access Module displays an error message when a user attempts to connect to a nonexistent database or with to a database for which the user does not have the appropriate access permissions.
54861	Teradata Database selected as a source or target correctly displays in the database tree in the <b>Teradata OleLoad</b> dialog box.
58452	A <b>Refresh</b> button was added to the <b>Teradata OleLoad</b> dialog box that updates the source database connection and the table selection.
58891	Teradata OLE DB Access Module creates a MULTiset table when the source database allows duplicate rows.
59179	Teradata OLE DB Access Module supports case-sensitive column names to avoid data loss for type strings.
116093	Teradata OLE DB Access Module can be used with Teradata PT. Teradata OleLoad can be used to create simple Teradata PT scripts and start Teradata PT jobs.

Table 15: Teradata Access Module RFCs (continued)

RFC	Description
116373	Teradata OLE DB Access Module supports the new Teradata Database 13.0 PERIOD data types. A PERIOD data type has two values that represent the start and end of the period.
123121	Teradata OLE DB Access Module supports LDAP authentication.
124960	Teradata OLE DB Access Module now allows account-specific logins.
<b>Teradata WebSphere MQ Access Module</b>	
117858 117889	64-bit Teradata WebSphere MQ Access Module is supported on Hewlett-Packard HP-UX Intel Itanium (Itanium build).

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 16: Teradata Access Module DRs

DR	Description
<b>Named Pipes Access Module</b>	
114822	This issue occurred on Linux operating systems only. Named Pipes Access Module was enhanced to prevent core dumps caused by overly long file names.
<b>Teradata OLE DB Access Module</b>	
129469	Previously, restarting Teradata OLE DB Access Module required users to re-enter the domain name of their ODBC and CLI connections. Now, the domain name is remembered.
130394	Teradata OLE DB Access Module saved user passwords for Teradata Database even if option "Allow saving password" was not selected in the connection properties. This error no longer occurs.
<b>Teradata WebSphere MQ Access Module</b>	
118474	<b>Documentation Only</b> <i>Teradata Tools and Utilities Access Module Reference</i> documents the fact that multi-volume checkpoint files are not supported.
118476	<b>Documentation Only</b> The JCL code sample was updated in <i>Teradata Tools and Utilities Access Module Reference</i> .

# Teradata Archive/Recovery Utility

Teradata ARC archives, restores, and recovers databases and tables between Teradata Database systems.

## Product Version Number

Teradata ARC 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata Archive/Recovery Utility Reference*,  
B035-2412-088A

## Release Notes

### Teradata Database Compatibility

Teradata ARC 12.0 is not compatible with Teradata Database 13.0.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 17: Teradata ARC RFCs

RFC	Description
59455	Teradata ARC supports join indexes.
61096	Error code 5312 was reclassified as a warning.
104836	A <b>LINEWRAP</b> runtime parameter was added to specify the number of characters at which Teradata ARC turns off wrapping or wraps the output log. See <i>Teradata Archive/Recovery Utility Reference</i> and <i>Teradata Tools and Utilities Command Summary</i> for more information.
109087	ARC1016 warning is suppressed for excluded tables.

Table 17: Teradata ARC RFCs (continued)

RFC	Description
109458	<p><b>Documentation Only</b></p> <p>The list of dictionary rows are archived as part of user databases was incomplete in <i>Teradata Archive/Recovery Utility Reference</i>; the list was updated.</p>
111002	<p><i>SKIP RIGHTS CHECK</i> was added to <b>ARCHIVE</b>, <b>COPY</b>, and <b>RESTORE</b> to skip the validation of access rights before Teradata ARC processes those commands. For more information, see <i>Teradata Archive/Recovery Utility Reference</i> and <i>Teradata Tools and Utilities Command Summary</i>.</p>
113005	<p>To improve performance when archiving, Teradata ARC optimizes local sessions when assigning AMPs.</p>
113323	<p>Teradata ARC redefines the severity of some Teradata Database error codes.</p>
114218	<p>The <i>DBSIZEFILE</i> option was added to the <b>RESTORE</b> command to resize a database during a restore operation. See <i>Teradata Archive/Recovery Utility Reference</i> and <i>Teradata Tools and Utilities Command Summary</i> for more information.</p>
115518	<p>Teradata ARC supports Teradata Database buffering enhancements to improve restore performance to a non-identical configured Teradata Database system.</p>
115523	<p>The following tables that support IUMB changes were added for the backup and restore of database DBC:</p> <ul style="list-style-type: none"> <li>• ReconfigInfo</li> <li>• ReconfigOrder</li> <li>• ReconfigTableStats</li> </ul>
115526	<p>Teradata ARC supports archiving and restoring individual objects. Copying individual objects is also allowed, with the exception of triggers.</p>
115943	<p><b>Documentation Only</b></p> <p>Information on UDTs and User-Defined Methods (UDMs) was expanded in <i>Teradata Archive/Recovery Utility Reference</i>.</p>
117002	<p>QueryStatsTbl and StatsTbl were added for the qualified statistics feature.</p>
117692	<p>Teradata ARC supports the Teradata Database larger partition ID size; partition ID size was increased from 2 bytes to 8 bytes (16-bit to 64-bit).</p>
117719	<p>Teradata ARC supports the file system fault isolation feature.</p>
120393	<p>For a partition-level restore, the number of rows actually restored to the table display in the ActivityCount field of the SUCCESS parcel returned to Teradata ARC. This allows Teradata ARC to count exactly how many rows were copied into the partition and match the rows actually written into the Teradata Database table in a partition-level restore.</p>
120682	<p>Teradata ARC supports new Teradata Database errors generated for the HUTCKDMPDONE request, which is associated with the online archive feature.</p>
123959	<p>Teradata ARC supports the Teradata Database no primary index (NoPI) tables feature.</p>

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 18: Teradata ARC DRs

DR	Description
108980	The problem of delays due to repositioning when copying many objects from a backup was resolved.
111605	Teradata ARC stopped responding when a gateway timeout occurred. This problem was related to logging on to Teradata ARC sessions, and no longer occurs.
114247	<b>Documentation Only</b> <i>Teradata Archive/Recovery Utility Reference</i> was updated to reflect that Teradata ARC does not support object names larger than 30 bytes.
114612	When performing a restore of a database with the CATALOG option, the CATALOG reposition requests failed. This issue was resolved.
114931	When restarting a copy job, Teradata ARC tried to write the restart record to the restart log file, causing Teradata ARC to abort. This error no longer occurs.
115014	<b>Documentation Only</b> MODIFY TABLE was changed to ALTER TABLE in <i>Teradata Archive/Recovery Utility Reference</i> .
115258	<b>Documentation Only</b> The term ARCHIVE privilege was corrected to DUMP privilege in <i>Teradata Archive/Recovery Utility Reference</i> .
115411	A 7596 error occurred when logging was disabled after a dictionary dump for online archive. The OVERRIDE option allows the log disable process to proceed, even during the archive process.
116127	Multi-ARC backup jobs were having a negative effect on Teradata user applications because Multi-ARC was only logging its control sessions into the specified Teradata resource partition. This issue was resolved.
116543	Teradata ARC reported incorrect TOTALBLOCKS for the archive output file. This error no longer occurs.
116969	Teradata ARC failed with an <code>illegal memory access</code> error when a multi-stream backup is run in DUMMY mode. This issue was resolved.
118133	Teradata ARC failed with an <code>ARC0001</code> error when attempting to archive a Teradata 12.0 system using Teradata Tiered Archive and Restore Architecture. This error no longer occurs.
118873	Teradata ARC was not reporting job failure to the Teradata Tiered Archive and Restore Architecture server when an error occurred while attaching an access module. This issue was resolved.

Table 18: Teradata ARC DRs (continued)

DR	Description
119160	Using the CATALOG feature in Teradata Tiered Archive and Restore Architecture 1.1, Teradata ARC failed to restore child streams of an object when restoring an individual table from a database-level backup. An ARC error resulted, indicating an improper reposition, or an unexpected end-of-archive record. The CATALOG feature now works correctly.
119751	An 3737 error occurred when Teradata ARC 12.0 was used to copy ALL PARTITIONS from a selected partitions archive file created from a Teradata Database V2R 6.2 system using Teradata ARC 8.2. This error no longer occurs.
119929	The text of the Teradata ARC 1240 error code corrects the term “VAMP” to “AMP”. The term is also corrected in <i>Messages</i> .
120770	An archive with cataloging enabled resulted in a substantial delay in performance. This issue was resolved.
120776	During a multi-stream restore, Teradata ARC stopped responding when attempting to restore a database with no data objects. This error no longer occurs.
120808	<b>Documentation Only</b> The term OTB is changed to Backup Application Software in <i>Teradata Archive/Recovery Utility Reference</i> .
121180	When Teradata ARC was used with a UFT8 character set on MP-RAS operating systems, the multibyte character data set name was unexpectedly truncated or corrupted. This caused errors about missing files and objects. Sometimes character set conversion errors resulted. This error no longer occurs.
121557	Teradata ARC stopped responding during the data phase of a restore when restoring or copying individual partitions from a Teradata Database V2R6.x archive to Teradata Database 12.0. This issue was resolved.
125175	Multi-stream archives/restores with multiple sessions per AMP failed when using the CATALOG option. The problem no longer occurs.
125255	When a table-level object was archived using Netbackup with the CATALOG option turned on, the restore operation failed. This occurred only when the table size was more than 1GB.  This error no longer occurs.
127864	During installation, InstallShield and the installation scripts used only the first few digits of the version number, missing any e-fixed versions.  Installation scripts were modified and this error no longer occurs.
128301	When restoring a multi-stream job using NetVault, the restore operation failed if the CATALOG option was turned on.  This error no longer occurs.
128302	If a database restart occurred during an archive job after one or more checkpoints were taken, Teradata ARC restarted the archive of the table that was in progress when the restart occurred; however, the resulting archive had missing data.  This error no longer occurs.

# Teradata Call-Level Interface version 2

Teradata CLIV2 provides a library of routines that enable an application program to access data stored on Teradata Database.

## Product Version Number

- Teradata CLIV2 for channel-attached systems (CAS) 13.0
- Teradata CLIV2 for network-attached systems (NAS) 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems*,  
B035-2417-088A

*Teradata Call-Level Interface Version 2 Reference for Network-Attached Systems*  
B035-2418-088A

## Release Notes

### **Hewlett-Packard HP-UX 11i v1 (11.11)**

To use Teradata CLIV2 for NAS on Hewlett-Packard HP-UX 11i v1 (11.11), you must download the following patches from the Hewlett-Packard web site: PHCO 24400, 24401, 24402, and PHNE 2412.

### **HSHSPB Keywords**

The HSHSPB default of IBCFBRL was inconsistently 1024 in the distributed assembler source, but was 2048 in the distributed macro; both defaults are now 1024. If customization had removed the specification from the assembler source before assembly, the macro value of 2048 would have been used. Although unlikely and negligible, the change from 2048 to 1024 could adversely affect performance by either dynamically increasing the size or requiring more fetches.

The HSHSPB sequence numbers were changed. Any reference to those sequence numbers (for example, by SMPs use of the MVS IEBUPDTE utility) require adjustment.

## Previously Reserved QEP Byte

Teradata CLIV2 for CAS includes a new query that returns the Teradata Database access path. A QEP byte previously reserved is now used. If existing applications do not ensure unused areas are initialized to binary zeroes as required, a Teradata CLIV2 return code 1147 might occur reflecting an invalid value in the newly assigned field.

## Teradata CLIV2 for NAS Application Core Dump

When an earlier version of the *libc* library is used on Hewlett-Packard HP-UX, the following error might occur when starting Teradata CLIV2 for NAS applications:

```
/usr/lib/dld.sl: Unresolved symbol: pthread_mutex_lock (code) from /usr/lib/libcliv2.sl Abort (coredump)
```

OR

```
CLI error: MTDTP: EM_GSSINITFAIL(235): call to gss_init failed.
```

### Solution

Update the *libc* library by applying the HP-UX 11.11 patch PHCO\_24400 or later, which is available from the Hewlett-Packard patch web site.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 19: Teradata CLIV2 RFCs

RFC	Description
<b>Teradata CLIV2 for CAS</b>	
105493	Applications using Teradata CLIV2 for CAS can now detect whether the Teradata Database column correlation feature is supported.
105686	Teradata CLIV2 for CAS passes return codes and parcel definitions in C programming language.
106071 110155	Teradata CLIV2 for CAS supports job entry subsystem 2 (JES2) job numbers greater than 65,535.
106460 115070	Teradata CLIV2 for CAS supports Statement Information parcels. A new field was added at the end of the Statement Information response parcel.  The reserved field in the database-interface extension to the Configuration Response parcel was replaced with a new field to indicate whether Teradata Database supports Statement Information parcels in a request.
106877	Teradata CLIV2 for CAS supports both SAS/C® and IBM C compilers.
108906	Teradata CLIV2 for CAS includes a new query that returns the Teradata Database session character set.
109220	Teradata CLIV2 for CAS supports 12 new character sets. See <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> for more information.



Table 19: Teradata CLv2 RFCs (continued)

RFC	Description
113472	Teradata CLv2 for CAS includes a new query that detects the Teradata Database node ID associated with a session.
113597	See “ <a href="#">HSHSPB Keywords</a> ” on page 47.
114988	Teradata CLv2 for CAS supports temporal tables and queries. In addition, a field was added to the Statement Information response parcel to reflect the temporality of the column.
115814	See “ <a href="#">Previously Reserved QEP Byte</a> ” on page 48.
115943	<b>Documentation Only</b> Information on UDTs and UDM was expanded in <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> .
116015	Teradata CLv2 for CAS supports the new Teradata Database 13.0 PERIOD data types.
118986	Teradata CLv2 for CAS is supported on IBM CICS® Transaction Server for z/OS 3.2.
<b>Teradata CLv2 for NAS</b>	
105227	The default maximum size of a COPANOMLOG file was changed to 250 MB. When this limit is reached, the first file is closed and a new one is created to prevent the files from getting too large for an operating system. Users can change the default file size.
106013	A new runtime environment variable, CLI_RECON_WAIT, was added to allow users to specify a reconnect time-out value between 1 to 3,600 seconds; the default is 2 seconds.
106139	A loop in configuration response processing was corrected by validating the first 2 bytes of a response message (Version and Class) to ensure they correspond to the protocol. These changes improve CLv2 response time when users log on with an incorrect IP addresses.
107850	Teradata CLv2 for NAS includes three new ICU error messages that better define the current generic (510) loadtdicu errors: Tdicu load library error [527], Tdicu load symbol error [528], and Tdicu unload error [529].
108586	Applications using Teradata CLv2 for NAS can now skip the logmech_data_ptr/logmech_data_Len parameters and log in with logon_ptr alone (LDAP authentication).
111599	Teradata CLv2 for NAS includes a new query that returns the Teradata Database access path.
111614	Teradata CLv2 for NAS includes a new query that returns the Teradata Database session character set.
111615	Applications using Teradata CLv2 for NAS can now detect whether the Teradata Database column correlation feature is supported.
112838	User exits are loaded in a way that makes it easier to determine exit methodology.
113468	Teradata CLv2 for NAS includes a new query that detects the Teradata Database node ID associated with a session.

Table 19: Teradata CLIV2 RFCs (continued)

RFC	Description
115324	Teradata CLIV2 for NAS includes a new query that identifies load jobs with LOBs and makes it more efficient to load them.
115326	A new QEPITSS (50) DBCHQE query was added that determines whether a target server supports the Teradata Database trusted sessions feature.
115330 119336	Teradata CLIV2 for NAS supports the following new Teradata Database activity types: <ul style="list-style-type: none"> <li>• Create Operator</li> <li>• Drop Operator</li> <li>• Replace Operator</li> <li>• Rename Operator</li> <li>• Grant Conn. Through</li> <li>• Revoke Conn. Through</li> </ul>
115931	Teradata CLIV2 for NAS supports the new Teradata Database 13.0 PERIOD data types.
115943	<b>Documentation Only</b> Information on UDTs and UDM was expanded in <i>Teradata Call-Level Interface Version 2 Reference for Network-Attached Systems</i> .

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 20: Teradata CLIV2 DRs

DR	Description
<b>Teradata CLIV2 for CAS</b>	
113421	When using Teradata Tools and Utilities 8.2 against Teradata Database V2R6.2.1.1, Teradata FastExport exported DECIMAL(18) fields as 8 bytes (15 digits) when <b>DECIMALDIGITS 18</b> was not specified.  The default of binary zero was changed from 15 digits to 18 digits to eliminate incompatibilities in DECIMAL values. See <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> for details.
115015	<b>Documentation Only</b> The term MODIFY TABLE was changed to ALTER TABLE in <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> .
115313	<b>Documentation Only</b> Security considerations were added to <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> .

Table 20: Teradata CLiv2 DRs (continued)

DR	Description
115428	<b>Documentation Only</b> The information about certain data types was corrected in <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> .
115809	<b>Documentation Only</b> The information about the ENCODING operand value was clarified and enhanced in <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> .
116239	<b>Documentation Only</b> The ElicitFile parcel description was corrected in <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> .
116760	<b>Documentation Only</b> Detail about the ContinueRequest function was added to <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> .
117929	Information regarding copying a CLiv2 RCB was clarified in <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> . The DBCCPR must also copy the full owner-id enlargement that is populated when the session was established.
119098	<b>Documentation Only</b> The size of the DataInfoX and PrepInfoX parcel fields was corrected in <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> .
120168	<b>Documentation Only</b> Elicit parcels information was clarified in <i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i> .
<b>Teradata CLiv2 for NAS</b>	
103269	Teradata CLiv2 for NAS was changed to prevent sessions from being cleared when a node goes down before a timeout.
112642	Teradata CLiv2 for NAS distinguishes what character set is used to construct messages returned in user-defined areas or in the DBCAREA message text area.
115616	Previously, Teradata CLiv2 for NAS stopped responding when attempting to recover from a CLI 207 (EM_NETCONN) error. Teradata CLiv2 for NAS was modified to set the session ID and display an error code.
116238	<b>Documentation Only</b> The ElicitFile parcel description was corrected in <i>Teradata Call-Level Interface Version 2 Reference for Network-Attached Systems</i> .
116388	On Hewlett-Packard HP-UX, Teradata CLiv2 for NAS did not send the entire text of a message. The message sent to Teradata Database was shorter than the length indicated in the lanheader, and a subsequent keep-alive message was interpreted by Teradata Database as the end of the previous message which caused an 8014 error. Teradata CLiv2 for NAS was modified and this error no longer occurs.

Table 20: Teradata CLIV2 DRs (continued)

DR	Description
116719	Teradata CLIV2 for NAS correctly processes the Account ID in a logon string on UTF16 sessions.
116763	Teradata CLIV2 for NAS was modified so it functions correctly when an end-of-line (0xa0) byte is missing.
119099	<b>Documentation Only</b> The size of the DataInfoX and PrepInfoX parcel fields was corrected in <i>Teradata Call-Level Interface Version 2 Reference for Network-Attached Systems</i> .
121281	<b>Documentation Only</b> Several QEPITEM queries were corrected in <i>Teradata Call-Level Interface Version 2 Reference for Network-Attached Systems</i> .
121263	If a negative conn id is assigned and passed to OsRecv (only possible from recvmsg), a core dump occurs in OsRecv on MP-RAS. This error no longer occurs.

## Teradata Director Program

TDP is a high-performance interface for messages between the client and the Teradata system. TDP is the data communications component of Teradata Database.

### Product Version Number

TDP 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata Director Program Reference*,  
B035-2416-088A

## Release Notes

### SET LIMIT NORESP

The default value of *nn* in the **SET LIMIT NORESP nn** command was changed from 50 to 75. Use of any **SET LIMIT NORESP nn** command where *nn* is less than 76 should be discontinued.

### Deprecation of the IFP interfaces

The external IFP interfaces were deprecated and replaced with CP interfaces. The ATTACH, DETACH, START, and STOP commands were changed to support the CPnnn operand. The DISPLAY CP command was extended to include the deprecated DISPLAY IFP functionality.

Automated operations products that depend upon the static content of TDP messages may require adjustment since many messages have changed; for example, the CPname is now often enclosed in quotation marks.

### z/OS Messages and Descriptor Codes

For compatibility with IBM z/OS, descriptor code 4 was added for command responses. Automated operations products or operator message routing that depend upon z/OS descriptor codes may require adjustment because descriptor code 4 was added to command responses, which affects processing of descriptor codes or the system log.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 21: TDP RFCs

RFC	Description
105491	Two internal TDP control blocks were changed to enhance internal diagnostics.
105492	Applications using TDP can now detect whether the Teradata Database column correlation feature is supported.
106460	A new field was added to the end of the full-layout, self-defining portion of the Statement Information response parcel.
106662	See <a href="#">“Deprecation of the IFP interfaces” on page 53</a> .
109219	TDP supports 12 new character sets. See <i>Teradata Director Program Reference</i> for more information.
110570	TDP detects whether Teradata Database supports Statement Information parcels in a request.
113066	See <a href="#">“z/OS Messages and Descriptor Codes” on page 53</a> .
114403	TDP supports Teradata Database 12.0 result sets.
114988	TDP supports temporal tables and queries.

Table 21: TDP RFCs (continued)

RFC	Description
116015	TDP supports the new Teradata Database 13.0 PERIOD data types. A PERIOD data type has two values that represent the start and end of the period.
117219	TDP supports the Teradata Database trusted sessions feature.
117306	See “ <a href="#">SET LIMIT NORESP</a> ” on page 53.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 22: TDP DRs

DR	Description
115810	Information on the ENCODING operand value was enhanced in <i>Teradata Director Program Reference</i> .

# Teradata Dynamic Workload Manager

Using Teradata DWM, you can set up rules that manage database access, increase database efficiency, and enhance workload capacity. The rules include workload limits on accounts, users, and objects, such as databases, tables, and more.

## Product Version Number

Teradata DWM 13.0

## Supported Versions of Teradata Database

- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata Dynamic Workload Manager User Guide*,  
B035-2513-088A

## Release Notes

### Utility Throttles

When a utility throttle is in effect, the maximum limit (which is 60% of max AWT, normally 48) is used internally for MaxLoadAWT regardless of the DBSControl value. When the

MaxLoadAWT is already set at the maximum, it is unaffected by the active utility throttle. However, when the MaxLoadAWT is lower than the maximum, it is overridden by active utility throttle.

The “Utility Throttles” section in Chapter 7 of *Teradata Dynamic Workload Manager User Guide* incorrectly states that the throttling rate set for the **FastLoad + MultiLoad** option is the *only* option that overrides the MaxLoadTasks value. However, all the utility throttle options (**FastLoad + MultiLoad**, **FastLoad**, **MultiLoad**, **FastExport**, and **Archive/Restore**) set using Teradata DWM override the MaxLoadTasks value.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 23: Teradata DWM RFCs

RFC	Description
108585	The <b>Priority Scheduler</b> view includes a check box under a new <b>Active</b> column that enables dynamic recalculation of Allocation Group (AG) weights. For details, see <i>Teradata Dynamic Workload Manager User Guide</i> .
111634	Throttle and filters names can now be changed after they have been defined.
111943 116248	Teradata DWM supports wildcard characters in object names used with category 3 rules only. See <i>Teradata Dynamic Workload Manager User Guide</i> for details.
112349	The <b>Filters and Throttles Enabled</b> dialog box was redesigned to include a column for each system state. For details, see <i>Teradata Dynamic Workload Manager User Guide</i> .
113041	The procedures for creating filters and throttles has changed. See <i>Teradata Dynamic Workload Manager User Guide</i> for details.
115050	Field names on the <b>Blocker</b> tab were changed from <b>Deadlock Cycles</b> and <b>Deadlock Action</b> to <b>Block Cycles</b> and <b>Block Action</b> , respectively. All references were updated in <i>Teradata Dynamic Workload Manager User Guide</i> .
115412	Users can log on to Teradata DWM and work in local mode to view or modify rule sets without logging on to Teradata Database.
115957	Teradata DWM 13.0 is backwards compatible with Teradata Database 12.0.
112186 115960	Specific data objects can be excluded as classification criteria when defining a new workload. For information on using the <b>Classify by Object</b> dialog box, see <i>Teradata Dynamic Workload Manager User Guide</i> .
116242	The <i>Post to Queue Table</i> feature (previously called <i>Queue Table</i> ) is now available for exception processing and event processing.
116247	Queries can now be rejected by for one or more specific states. For details, see <i>Teradata Dynamic Workload Manager User Guide</i> .
117318	Exceptions can now be renamed after they have been defined.

Table 23: Teradata DWM RFCs (continued)

RFC	Description
117320	Exception qualification time must be a multiple of the exception interval. Teradata DWM displays a warning message before overriding the given value if it is not within the acceptable range. See <i>Teradata Dynamic Workload Manager User Guide</i> for details.
117322	New icons in the <b>Description</b> tab can be used to specify the throttle type when defining an object throttle rule. For more information, see <i>Teradata Dynamic Workload Manager User Guide</i> .
117324	The <b>New Event</b> dialog box was modified to improve usability. See <i>Teradata Dynamic Workload Manager User Guide</i> for details.
117325	A <b>Split Screen</b> command was added to the <b>View</b> menu that displays two panes: the bottom pane accesses DIT features and the upper pane displays the state matrix. See <i>Teradata Dynamic Workload Manager User Guide</i> for details.
117326	A new event can be defined from the <b>Event Combinations and Actions - System Condition</b> view when defining an event combination. For more information, see <i>Teradata Dynamic Workload Manager User Guide</i> .
117327	System states are readily visible in the State pane in the <b>Priority Scheduler</b> . See <i>Teradata Dynamic Workload Manager User Guide</i> for details.
118199	In addition to the default <i>tdwm</i> user, other users with read-only permissions can now be defined for Teradata DWM. For more information, see <i>Teradata Dynamic Workload Manager User Guide</i> .
121527	The <b>New Exception</b> dialog box was modified to improve usability. See <i>Teradata Dynamic Workload Manager User Guide</i> for details.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 24: Teradata DWM DRs

DR	Description
113927	Teradata DWM dump utility displayed the wrong classify order when Service Level Goal information was not specified for the current Operating Environment. The Teradata DWM dump utility now uses the CurrentID of the Operating Environment for the WD, rather than the ActualID of the Operating Environment for the WD.  In addition, a -t option was added to Teradata DWM dump utility to display delay queue and throttle statistics. For more information, see <i>Teradata Dynamic Workload Manager User Guide</i> .
114263	The <b>Rule Set Inquiry</b> dialog box now displays 30 characters for the Rule Set name.
114732	The term <i>penalty box</i> was replaced with the term <i>lower-priority WD</i> .



Table 24: Teradata DWM DRs (continued)

DR	Description
115045	<p><b>Documentation Only</b></p> <p>The <b>New Event</b> dialog box description was updated to clarify that the number of AMPs reported as AMP Fatal includes AMPs at fatal, offline, or utility at system startup. See <i>Teradata Dynamic Workload Manager User Guide</i> for details.</p>
115925	<p><b>Documentation Only</b></p> <p>Previously, the default value for system condition duration time and the event qualification time was incorrectly documented as 180 seconds. <i>Teradata Dynamic Workload Manager User Guide</i> was corrected to reflect that the default value for system condition duration time and the event qualification time is the current event interval value.</p>
116136	<p><b>Documentation Only</b></p> <p><i>Teradata Dynamic Workload Manager User Guide</i> includes an “Asynchronous Operations and Throttle Limits” section that describes what occurs when a throttle limit is exceeded.</p>
116678	<p>Previously, users could not enter a value greater than 99 in the <b>Limit</b> box in the AMP Worker Tasks frame of the <b>Priority Scheduler System Level Parameters</b> dialog box even though the actual limit was 120 AWTs. Teradata DWM was modified to allow the correct maximum value.</p>
118796	<p>Previously, users could create OpEnv (operating environment), SysCon (system condition), and states with the same name. Teradata DWM now includes checks to ensure those names are unique.</p>
119893	<p>When a query is rejected by a Teradata DWM rule, Teradata DWM displays a 3150 error message based on the threshold type (time or row count) along with the estimated value. When the estimated process time exceeds 360000000000.0 CPU seconds or the row count exceeds 99,999,999,999 rows, Teradata DWM displays one of the following 3150 error messages, indicating an overflow occurred:</p> <pre>Estimated time ***** milliseconds exceeds limit. Estimated value ***** rows exceeds limit.</pre>

## Teradata FastExport

Teradata FastExport is a command-driven utility that uses multiple sessions to quickly transfer large amounts of data from tables and views of Teradata Database to a client-based application.

### Product Version Number

Teradata FastExport 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0

- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata FastExport Reference*,  
B035-2410-088A

## Release Notes

### Documentation Updates

Minor, last-minute changes were added to *Teradata FastExport Reference*. An updated version is available at <http://www.info.teradata.com/>.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 25: Teradata FastExport RFCs

RFC	Description
93546	Teradata FastExport passes .logdata in UTF16 character sets for extended security.
96414	Teradata CLIV2 is correctly identified as a software dependency for Teradata FastExport. Teradata software packages now install in order and upgrade operations are successful.
100895 115846	Teradata FastExport 13.0 is compiled with Microsoft Visual Studio® 2008 and requires the new Visual Studio runtime libraries. The Teradata FastExport installation package includes the Microsoft Visual C++ (x86) 8.0 merge module, which is required to run Teradata Tools and Utilities 13.0 applications.
115943	<b>Documentation Only</b> Information regarding UDTs and UDMs was added to <i>Teradata FastExport Reference</i> .
116002	Teradata FastExport supports the new Teradata Database 13.0 PERIOD data types. A PERIOD data type has two values that represent the start and end of the period.
116023	Teradata FastExport no longer directly links to Teradata ICU, and Teradata FastExport no longer needs to be recompiled and re-linked when Teradata ICU is updated.
110172 117574	Teradata FastExport allows the <b>ACCEPT</b> or <b>SET</b> commands prior to using a <b>LOGON</b> or <b>LOGTABLE</b> command.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 26: Teradata FastExport DRs

DR	Feature or Enhancement
114106	Teradata FastExport correctly processes Unicode data <i>xx1A</i> characters, such as (U+4F1A) and (U+511A).
114114	<b>Documentation Only</b> A semicolon cannot be used in an object name because a semicolon designates the end of a Teradata FastExport command. See <i>Teradata FastExport Reference</i> for details.
119500	<b>Documentation Only</b> The <b>IMPORT</b> command syntax diagram in <i>Teradata FastExport Reference</i> was corrected to remove the <b>APPLY-WHERE</b> clause.
125530	It is now possible to generate Teradata MultiLoad scripts with the correct length for large decimal fields with Teradata FastExport.
128222	A new <b>IGNORECONFIGERRORS</b> option allows a job to continue even though the configuration file contains syntax errors.
128264	Teradata FastExport creates a garbage field in MultiLoad scripts when tables contains a column defined as <b>BIGINT NOT NULL</b> . The problem no longer occurs.
130367	Scripts generated on a Windows system contained incorrect UTF16 characters. The problem no longer occurs.
131317	Teradata FastExport was adding extra characters to most of the lines of output when the following runtime parameters were used: <b>-u utf8, -i utf8, -c utf8</b> . The problem no longer occurs.

## Teradata FastLoad

Teradata FastLoad is a command-driven utility that quickly loads large amounts of data in an empty table on Teradata Database.

### Product Version Number

Teradata FastLoad 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata FastLoad Reference*,  
B035-2411-088A

## Release Notes

None.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 27: Teradata FastLoad RFCs

RFC	Description
93544	Teradata FastLoad passes .logdata in UTF16 character sets for extended security.
96411	Teradata CLIV2 is correctly identified as a software dependency for Teradata FastLoad. Teradata software packages now install in order and upgrade operations are successful.
100894 115844	Teradata FastLoad 13.0 is compiled with Microsoft Visual Studio 2008 and requires the new Visual Studio runtime libraries. The Teradata FastLoad installation package includes the Microsoft Visual C++ (x86) 8.0 merge module, which is required to run Teradata Tools and Utilities 13.0 applications.
112462	Teradata FastLoad includes a new <i>-w</i> runtime parameter users can use to specify the width of output messages. Valid values are from 62 bytes to 256 bytes.
114889	<b>Documentation Only</b> Do not use Notepad to view Unicode or multibyte character sets output from Teradata FastLoad. Use Word or any other Hex editor instead. See <i>Teradata FastLoad Reference</i> for more information.
116001	Teradata FastLoad supports the new Teradata Database 13.0 PERIOD data types. A PERIOD data type has two values that represent the start and end of the period.
116021	Teradata FastLoad no longer directly links to Teradata ICU, and Teradata FastLoad no longer needs to be recompiled and re-linked when Teradata ICU is updated.
129955	Teradata FastLoad now supports the <b>RUN FILE</b> command to be consistent with the other Teradata load/unload utilities.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 28: Teradata FastLoad DRs

DR	Description
109001	Teradata FastLoad correctly processes a <i>NULLIF</i> condition specified in a <b>DEFINE</b> command from a UTF16 session character set.
114112	Teradata FastLoad can now process xx1A characters, such as (U+4F1A) and (U+511A), in Unicode data.
114114	<b>Documentation Only</b> A semicolon cannot be used in an object name because a semicolon designates the end of a Teradata FastLoad command. See <i>Teradata FastLoad Reference</i> for details.
119170	<b>Documentation Only</b> <i>Teradata FastLoad Reference</i> was corrected to state that the maximum length of a delimiter is 10 bytes, not 10 characters.
119239	<b>Documentation Only</b> <i>Teradata FastLoad Reference</i> was updated with the correct compile syntax for INMODS on a Linux systems: <pre>gcc -shared -fPIC inmod.c -o inmod.so</pre>
119500	<b>Documentation Only</b> The <b>IMPORT</b> command syntax diagram in <i>Teradata FastLoad Reference</i> was corrected to remove the <i>APPLY-WHERE</i> clause.
126971	Teradata FastLoad intermittently displayed the message “Total processor time used = 'could not be determined from o.s.” This problem no longer occurs.
127562	Parsing rules for the <b>SET QUERY_BAND</b> command were updated to allow Teradata FastLoad to recognize an equal sign as a word separator, with or without a preceding space.
127815	A new <b>IGNORECONFIGERRORS</b> option allows a job to continue even though the configuration file contains syntax errors.

## Teradata Generic Security Services

Teradata GSS is the Teradata implementation of industry-standard Generic Security Services APIs, which are defined by Internet Engineering Task Force (IETF) Request for Comments (RFC) 2743, “Generic Security Service Application Program Interface version 2, Update 1.”

TeraGSS provides enhanced security services interfaces between Teradata network clients and Teradata Database.

There are two libraries for the TeraGSS feature:

- TeraGSS–C library
- tdgssjava–Java library

## Product Version Number

Teradata GSS 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Release Summary,*  
B035-1098-098A

*Security Administration,*  
B035-1100-098A

## Release Notes

None.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software. There are no RFCs for this product for this release.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates. There are no DRs for this product for this release.

# Teradata Index Wizard

Teradata Index Wizard allows a Database Administrator to create or identify a workload, perform index analysis for a workload, and verify and apply index recommendations to maximize system performance.

## Product Version Number

Teradata Index Wizard 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1

- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata Index Wizard User Guide*,  
B035-2506-088A

## Release Notes

None.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 29: Teradata Index Wizard RFCs

RFC	Description
112735	Teradata Index Wizard supports new Unicode V-views. See <i>Teradata Index Wizard User Guide</i> for more information.
114569	Workload definition time is reduced by avoiding redundant statistics collections in Teradata Index Wizard.
116067	An <i>Index Recommendations</i> report displays instead of the <b>Summary</b> dialog box when index analysis, partition analysis, and restart analysis are completed.
116562	A Time Limit Expired column was added to the <b>Analysis Summary</b> dialog box. The values for this column are Yes or No. For more information, see <i>Teradata Index Wizard User Guide</i> .
116645	An Index Type column was added to the <b>Validation Results</b> window. This column displays the type of index used during index validation.
117247	Teradata Index Wizard supports analysis of workloads with 1 MB query text.
118777	Restart Analysis supports time limit and checkpoint frequency. See <i>Teradata Index Wizard User Guide</i> for details.
122165	For SAS, support has been added for database tables that have no primary index (NoPI tables).

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 30: Teradata Index Wizard DRs

DR	Description
116563	<b>From</b> and <b>To</b> options were added to the Partition Inputs group of the <b>What-If Analysis</b> dialog box. See <i>Teradata Index Wizard User Guide</i> for details.
116564	The error message for index analysis was updated to display the following: <code>Invalid Time Limit. Enter Time Limit between 1 and 2880.</code>
116565	The <b>Analysis Summary</b> dialog box columns are left justified for improved readability.
117104	Descriptions for the <b>Filter</b> and <b>List Names</b> options in the Select QueryBand group in <b>Select Criteria</b> dialog box were updated for better clarity. For details, see <i>Teradata Index Wizard User Guide</i> .
124791	Existing Indexes workload report did not show information for tables that had only a Primary Index. The error no longer occurs.

## Teradata International Components for Unicode

Teradata ICU is based on IBM International Components for Unicode version 3.6 and provides a C/C++ library for Unicode support. It is an installation prerequisite for Teradata CLIV2, ODBC Driver for Teradata, and OLE DB Provider for Teradata. Because this library cannot be accessed directly by an end-user, no documentation is provided.

### Product Version Number

Teradata ICU 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

None.

### Release Notes

None.



## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 31: Teradata ICU RFCs

RFC	Description
117263	The environment variable <i>ICU_DATA</i> was changed to <i>TD_ICU_DATA</i> to prevent conflict between Teradata ICU and any another version of ICU a customer might have on their system.
124304	Support for 81 KANJIEUC characters has been added for AIX, HP UX, Solaris, Solaris Opteron and Linux platforms (32-bit packages).

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 32: Teradata ICU DRs

DR	Description
124063	Various multi-byte characters could not be inserted properly using a KANJIEUC_OU session from the ODBC Driver, resulting in error 6706 "The string contains an untranslatable character error." This problem no longer occurs.
124725	The ODBC Driver is no longer able to display hankaku-katakana characters on Windows using KANJISJIS sessions, even though they were correctly inserted with a KANJIEUC_OU session. This functionality is now available via TDICU.

## Copyright Information

ICU License - ICU 1.8.1 and later

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## Teradata JDBC Driver

Teradata JDBC<sup>®</sup> (Java Database Connectivity) Driver is a specification for an API that allows platform-independent Java applications to access database management systems using SQL.

### Product Version Number

Type 4 Teradata JDBC Driver 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata JDBC Driver User Guide*,  
B035-2403-088A

### Release Notes

#### Documentation Updates

Minor, last-minute changes were added to *Teradata JDBC Driver User Guide*. An updated version is available at <http://www.info.teradata.com/>.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 33: Teradata JDBC Driver RFCs

RFC	Description
69205	<p>More precise classification occurs for DATE, TIME, and TIMESTAMP values bound to PreparedStatement question-mark parameter markers beginning with Teradata Database 12.0 and Teradata JDBC Driver 12.0. This allows Teradata Database to provide better implicit data type conversion for those data types.</p> <p>Beginning with Teradata JDBC Driver 12.0 and Teradata Database 12.0, java.sql.Date values are sent to Teradata Database as DATE values using the ANSIDate DateForm. This provides Y2K-compliant implicit conversion for java.sql.Date values specified with the PreparedStatement/CallableStatement setDate or setObject methods, and sent to destination CHAR/VARCHAR columns and parameters. Legacy applications requiring non-Y2K-compliant behavior can use Teradata-specific Escape Syntax functions introduced in Teradata JDBC Driver 12.0.</p>
97103	The TDSession object responsible for each log message is identified in Teradata JDBC Driver log output.
97560	Teradata JDBC Driver provides a mechanism that allows the debug logging to be turned on or off per request.
98176	Teradata JDBC Driver avoids the unnecessary step of explicitly closing the response spool after all results have been fetched, when the executeUpdate method was called and/or LOB_SUPPORT=OFF.
100090	The LOB_SUPPORT=OFF and the LOB_SUPPORT=ON database connection parameters are handled the same by the Teradata JDBC Driver, such that a larger buffer size is used for all response messages of a large result set.
106708	Teradata JDBC Driver provides additional timing measurements.
107027	Teradata JDBC Driver provides a login time-out function using the value set by the Driver Manager setLoginTimeout or DataSource setLoginTimeout.
108348	Teradata JDBC Driver supports dynamic result sets returned from Java external stored procedures with Teradata Database 13.0.
110511	When using Teradata Database 12.0, Teradata JDBC Driver sends more complete and accurate metadata to Teradata Database to describe values bound to PreparedStatement question mark parameter markers. This facilitates certain Teradata Database features, such as better implicit data type conversion for certain data types.
111264	Teradata JDBC Driver supports Teradata FastExport protocols. Setting the TYPE connection parameter to FASTEXPORT instructs the Teradata JDBC Driver to automatically use the Teradata FastExport protocol for PreparedStatement selects compatible with Teradata FastExport.

Table 33: Teradata JDBC Driver RFCs (continued)

RFC	Description
112298	<p>Teradata JDBC FastLoad feature provides additional validation of PreparedStatement parameter values, in order to reduce the occurrence of rows placed into Teradata FastLoad error tables by Teradata Database.</p> <p>Teradata JDBC Driver ignores the TNANO and TSNANO connection parameters for JDBC FastLoad. Teradata JDBC FastLoad feature sends TIME and TIMESTAMP data values with the same scale as the destination column.</p>
112566	<p>The [NCR] prefix was removed from Teradata JDBC Driver error messages.</p>
112569	<p>The tdgssjava.jar file is no longer required by the Teradata JDBC Driver. The classes formerly in tdgssjava.jar reside in terajdbc4.jar. This reduces the number of jar files from three to two, and simplifies deployment and maintenance.</p>
113344	<p>Specifying the connection parameter TYPE=FASTLOAD instructs Teradata JDBC Driver to attempt to use JDBC FastLoad, if possible. However, an SQL request must meet specific criteria for Teradata JDBC FastLoad to be used. Teradata JDBC Driver provides an SQL warning to indicate the reason why Teradata JDBC FastLoad could not be used, in cases where Teradata JDBC FastLoad can not be used.</p>
113678	<p>The following features were added to the <b>CREATE/REPLACE PROCEDURE</b> command for creating an External Stored Procedure (XSP):</p> <ul style="list-style-type: none"> <li>• If errors occur when creating the procedure, then an SQLException chain is composed and thrown from the execute or executeUpdate method</li> <li>• If warnings occur when creating the procedure, then an SQL warning chain is composed and made available to the application using Statement.getWarnings</li> </ul>
114154	<p>Teradata JDBC Driver provides the CallableStatement addBatch and executeBatch methods, working with Teradata Database restrictions. For a batched CALL to a stored procedure, Teradata JDBC Driver executes the CALL multiple times sequentially. No performance gain should be expected for a batched CALL to a stored procedure, because a network round trip must be made to Teradata Database for each set of parameter values in the batch.</p>
114465	<p><b>Documentation Only</b></p> <p>Four new sections were added to <i>Teradata JDBC Driver User Guide</i> in Chapter 2: “Session Time Zone,” “Multi-Statement Requests,” “Teradata Database Macros,” and “Creating User-Defined Functions and External Stored Procedures.”</p>
114956	<p>Teradata JDBC Driver supports the Teradata Database trusted sessions feature (user impersonation with query banding). A sample program is provided to demonstrate how to use the <b>SET QUERY_BAND</b> statement with PROXYUSER.</p>
114981	<p>Teradata JDBC Driver includes the error code and SQLState at the beginning of all SQLException messages.</p>
115269	<p>Teradata JDBC FastLoad was changed so a PreparedStatement executeBatch returns a BatchUpdateException when all rows are not processed successfully.</p> <p>A connection rollback does not cause a SQLException when rows are found in the FastLoad error tables by Teradata JDBC FastLoad. Instead, SQL warnings are added to the Connection’s warning chain.</p>

Table 33: Teradata JDBC Driver RFCs (continued)

RFC	Description
115627	Teradata JDBC Driver supports Java User-Defined Functions. A sample program is provided to demonstrate how to use Java User-Defined Functions (UDF) with Teradata Database 13.0.
115664	Teradata JDBC Driver supports LDAP authentication using Novell eDirectory with Teradata Database 13.0.
115855	The PreparedStatement and CallableStatement setObject methods with targetSqlType argument send the fractional seconds portion of a java.sql.Time value to Teradata Database.
115943	<b>Documentation Only</b> Information regarding UDTs and UDMs was added to <i>Teradata JDBC Driver User Guide</i> .
116276	Teradata JDBC Driver supports using the getConnection parameters username and password when using LDAP authentication with Teradata Database V2R6.2 and later releases. Username and password must be specified using the LOGDATA connection parameter when using LDAP authentication with Teradata Database V2R6.0 and V2R6.1.
116279	Teradata JDBC Driver provides SQLException error message text in English, by default. Teradata JDBC Driver provides SQLException error message text in Japanese when the JVM locale is set using command-line arguments: -Duser.language=ja -Duser.country=JP.
116489	Teradata JDBC Driver supports new Teradata Database 13.0 SQL keywords and ANSI SQLStates.
118803	The KATAKANAEBDIC session character set is not supported by Teradata JDBC Driver. <i>Teradata JDBC Driver User Guide</i> was corrected to remove a reference to the KATAKANAEBDIC session character set.
119320	Teradata JDBC Driver returns a result set composed of Teradata Database output, if any, when an existing UDF is replaced using the REPLACE FUNCTION statement.
120309	Teradata JDBC Driver supports data encryption, LDAP authentication, and Kerberos authentication for Teradata FastLoad, Teradata FastExport, and Monitor connections.
120378	Teradata JDBC Driver supports a literal IP address as a Teradata Database host name.
121952	The Statement.close method was changed to avoid causing a SQLException when the Teradata Database connection is already closed.
123376	The DatabaseMetaData getColumnPrivileges and getTablePrivileges methods were changed to support new Teradata Database 13.0 access rights.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 34: Teradata JDBC Driver DRs

DR	Description
101194	When the connection property LOB_SUPPORT is set to OFF, Teradata JDBC Driver automatically downgrades an application request for a scrollable result set from TYPE_SCROLL_INSENSITIVE or TYPE_SCROLL_SENSITIVE to TYPE_FORWARD_ONLY, and provide a corresponding SQL warning.
102357	Teradata JDBC Driver supports null and non-null values bound to the same parameter marker for different rows in a PreparedStatement batch, when the parameter marker refers to an SQL TIME or TIMESTAMP type.  After this change, a combination of PreparedStatement.setTime and PreparedStatement.setNull method calls can be used to bind values to a TIME column. In addition, a combination of PreparedStatement.setTimestamp and PreparedStatement.setNull method calls can be used to bind values by a TIMESTAMP column.
108301	The CallableStatement.setNull method supports a NULL input value bound to a question mark parameter marker corresponding to a stored procedure INOUT TIMESTAMP parameter.
118048	With Teradata Database V2R6.2 and earlier, Teradata JDBC Driver 12.0 ResultSet positioning methods might throw IndexOutOfBoundsException for a ResultSet containing more rows than could fit into a single response message from the database. Teradata JDBC Driver was changed and this error no longer occurs.
118571	Teradata JDBC Driver correctly handles the DataSource custom property CHARSET with respect to PreparedStatement.setString non-ASCII characters.
119000	The ResultSetMetaData.isAutoIncrement method returns true for an identity column with Teradata Database V2R6.2 and later releases.
120597	Teradata JDBC Driver uses the application-specified Statement setQueryTimeout value when waiting to read the response from Teradata Database after a query timeout has occurred for an SQL request, and to close the socket and indicate a communications failure to the application if a second timeout occurs in that situation.
120705	Teradata JDBC Driver returns a SQLException with error code 832 from the PreparedStatement setNull method for certain error conditions caused by unsupported SQL data types.
120929	Teradata JDBC Driver provides correct information from the DatabaseMetaData getColumn method when using the UTF8 session character set.
121130	Teradata JDBC Driver supports the PreparedStatement getParameterMetaData method with multi-statement macros and multi-statement requests.

## Teradata Manager

Teradata Manager is a PC-based graphical database management platform containing a suite of specialized tools and applications that centrally monitor and control Teradata Database.

## Product Version Number

Teradata Manager 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata Manager Installation Guide*,  
B035-2402-088A

*Teradata Manager User Guide*,  
B035-2428-088A

## Release Notes

### Grant Privileges if Using Security Mechanism

When logging on to Teradata Manager using an alternate security mechanism, an error message can display indicating the user does not have the appropriate grant privileges and adequate permissions to use Teradata Manager.

**Workaround:** When a security mechanism has been set for a user, access privileges must be manually granted by running the Teradata Manager Database Setup application or running the setup script. For instructions on running the setup script, see the “To set up the database using the Teradata Manager setup script” procedure in Chapter 4 of *Teradata Manager User Guide*.

### Workload History Report

Changing the active Teradata DWM rule set during a Teradata Manager session causes “UNKNOWN” to appear in the Workload Names column of a Workload History report.

**Workaround:** Restart the Teradata Manager service to pick up the new workload names and IDs.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 35: Teradata Manager RFCs

RFC	Description
91927	RSS collection rates can be changed on all systems, not just monitored systems.
96673	All data collection tasks can be updated after configuration or scheduling changes using a new <b>Refresh</b> button on the <b>Data Collection</b> tab, including changes made by other people. See <i>Teradata Manager User Guide</i> for details.
99762	The Database Setup application recognizes persistent errors, such as an expired password, and quickly stops processing.
99923	Window size and position are saved upon exiting and are restored when the specific Teradata Manager application is started again.
99925	The <b>OK</b> button is disabled until all fields, except the <b>Account ID</b> field, have been completed in the <b>Logon Information</b> dialog box.
100157	In Teradata Manager, two fields were replaced with a single <b>Node/Vproc</b> field for entering RSS collection rates. In Performance Monitor, two separate Vproc and Node monitor rates were replaced with a single collection rate. For more information, see <i>Teradata Manager User Guide</i> and Performance Monitor online help.
103332	The Exception Query List report was enhanced to accommodate the Abort on Select action in Teradata DWM.
109419	A <b>Not Idle</b> filter was added to the Session Status report to show sessions that are in any state except idle.
110516	<b>Documentation Only</b> <i>Teradata Manager User Guide</i> includes a new “Teradata Manager Server Privileges” section to assist IT personnel with granting Windows and network privileges when installing the Teradata Manager Service.
112743	Wrap-around time can be specified in the Workload Trend reports.
114284	<b>Backup Segs Alloc</b> was changed to <b>Maximum I/O Time</b> in the Vproc Utilization Detail report in Teradata Manager. <b>Backup Segs Alloc</b> was changed to <b>Max I/O Time</b> in Performance Monitor.
114933	A new filter option was added to display active events or all events in the Event Status report.
114963	Performance Monitor was enhanced so the Explain text for a session can be saved in Unicode format.
115191	<b>Documentation Only</b> <i>Teradata Manager User Guide</i> was updated to clarify that the Teradata Manager client does not have to be running for the service to perform data collection.
115995	Teradata Manager supports the new Virtual Storage Services (VSS) vproc type.
115996	Performance Monitor supports the new VSS vproc type.



Table 35: Teradata Manager RFCs (continued)

RFC	Description
116584	The Event Status report was changed so the <b>Active Date</b> and <b>Expression Date</b> columns are blank if the system state is currently inactive and has never been active, and the <b>Active Time</b> and <b>Expression Time</b> columns are blank for the “Normal” System Condition and the “Always” Operating Environment.
116611	Spool space data collection can be configured to produce alerts only for users that are logged on. See <i>Teradata Manager User Guide</i> for more information.
116626	Statistics Collection displays partition information.
116928	In email alerts, the <b>Actual Value</b> field no longer appears for an AlertRequest or MonitorRequest having null EventValue.  In Run a Program actions, the <b>Actual Value</b> field is blank for an AlertRequest or MonitorRequest having null EventValue.  In the AlertRequest table, the <b>Value</b> column was renamed <b>Event Value</b> . If the value is unknown or cannot be represented as a single numeric value, this column is null.
117037	The <b>back</b> and <b>forward</b> navigation buttons were changed to <b>previous</b> and <b>next</b> .
117526	Teradata Manager displays context-sensitive help when using Internet Explorer 7.0 as the default browser
117932	SQL Assistant .Net was added to the <b>Administer</b> menu.
120374	<b>Documentation Only</b> <i>Teradata Manager User Guide</i> includes a new “Install and Configure Windows SNMP Service” section on setting up the Microsoft SNMP Service to work with Teradata Manager SNMP traps.
115317	The node status light on the Teradata Manager Dashboard was changed so it turns red only when the node is down.
119036	The Session Detail report was enhanced to display the next session and the previous session in the same order as in the Session Status report.
121515	Teradata Performance Monitor was enhanced so SQL can be retrieved from sessions in an aborting state.
124983	Teradata Manager applications support the no PI tables feature (TableKind = ‘O’), which will be available with Teradata Database 13.00.01 or later.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 36: Teradata Manager DRs

DR	Description
101350	The Locking Logger Report generated by Teradata Manager was recording incorrect data for session row, userid, account, and logonsource. This was occurring because there are multiple logon rows in <i>dbc.eventlog</i> for the same session number value (session numbers are reused). In particular, the activities of the <i>arcmain</i> user were identified as an “unknown” user. This misidentification no longer occurs.
105755	When an alternate logon ID and password were used while configuring a heartbeat query from a remote Teradata Manager client PC, the Teradata Manager service stopped. Teradata Manager was modified to prevent the error, and additional instructions were added to the <i>Teradata Manager User Guide</i> .
110525	Launching Teradata Performance Monitor (PMon) caused a hung state if any connected database was offline. This problem no longer occurs.
114010	One of the five types of utilities in the Object Utility Statistics report incorrectly showed <b>All Utilities</b> , instead of <b>FastLoad + MultiLoad</b> . Teradata Manager was modified, and the <i>Teradata Manager User Guide</i> was updated.
115612	When the error “Internal Error: Inconsistent Monitor software condition detected.” occurred, it caused a Teradata Database restart. This error was caused when retrieving the list of workload definitions from an earlier Teradata DBS that did not support workload features. This error no longer occurs.
115669	Teradata Manager includes a new Utility Delay Queue List report that shows all requests in the utility delay queue. See <i>Teradata Manager User Guide</i> for details.
115990	Previously, Teradata Manager could not launch any Apply alert policies that were set to be executed by the Scheduler. The alert policies now launch properly.
116113	Previously, you could not schedule statistics collection using Teradata Statistics Wizard with ODBC. An <code>Add schedule operation successful</code> message displayed, but the <code>dbcmngr</code> scheduling tables were empty, and the Teradata Statistics Wizard log file contained ODBC errors. Teradata Manager was modified and these error no longer occur.
116144	Error Log Analyzer stopped responding when more than 200 characters were entered while creating a new category. Error Log Analyzer was modified so the maximum length of 30 characters can be entered for a new category, and clarification was added to the online help.
116456	When Teradata Manager Service was stopped, port 1515 was not released when scheduled tasks were running. This issue was resolved.
117084	<b>Documentation Only</b> <i>Teradata Manager User Guide</i> and Performance Monitor online help were updated to explain what zero means when it appears in the <b>RunVProcNumber</b> field in the Session Detail report in Teradata Manager and in the <b>RunVProc</b> field in Performance Monitor.
117173	Previously, the Dashboard did not show movement for PE and AMP in the dial and chart for Virtual Utilization. Teradata Manager was modified and those errors no longer occur.

Table 36: Teradata Manager DRs (continued)

DR	Description
117186	<p><b>Documentation Only</b></p> <p>A description of how the Sort by Workload feature works when Teradata ASM workload categories are enabled or disabled was added to the Performance Monitor online help.</p>
117227	<p>The Hierarchy report could not be saved in the intended directory. Teradata Manager was modified and this error no longer occur.</p>
117626	<p>Teradata Manager scheduler displayed a misleading error when a user attempted to make a change to an object for which they did not hold the required access rights. Teradata Manager was modified so the correct error code displays.</p>
118115	<p>Previously, an error message displayed after a Teradata Manager client had been running for several hours. Then, the Teradata Manager Client application would stop responding after the message was acknowledged. This problem occurred multiple times per day.</p> <p>Although there was adequate error checking and recovery to allow the processes to continue, communication to and from the service was paused when the error message displayed, and eventually could not be restored.</p> <p>Teradata Manager was modified to suppress this extraneous error message, which was intended as a debug tool, and this error no longer occurs.</p>
118163	<p>Previously, the Session Information application could not be accessed in client-mode for user IDs without monitor privileges. Teradata Manager was modified to recognize the privilege error and prompt the user to connect via the service, if one is available, or exit Session Information.</p>
118169	<p>Performance Monitor was modified to allow a password to be pasted. Instructions on using the Backspace key and not the arrow keys or mouse to position the cursor in the <b>Password</b> field were added to the Performance Monitor online help.</p>
118272	<p>When connecting Teradata Manager 12 client to Teradata Manager 7.2 server, a misleading <code>Invalid password</code> error message was received. This issue was resolved.</p>
118564	<p>Teradata Database stopped responding while AmpUsage data was being collected. In addition, AmpUsage data stopped collecting after Teradata Database was restarted. This issue was resolved.</p>
118825	<p>The <b>Sessions</b> column in Vproc Utilization report was misleading. The <b>Sessions</b> column was renamed <b>Session Log</b> in the Vproc Utilization report to more accurately describe the content, and <i>Teradata Manager User Guide</i> was updated.</p>
119222	<p>Teradata Manager stopped responding while attempting to view a DBQL Step Usage report. This issue was resolved.</p>
119400	<p>In the Space by Database report, the <b>Skew%</b> field displayed negative values when the database has no tables in it. Teradata Manager was modified so the correct value displays, and <i>Teradata Manager User Guide</i> was updated.</p>
119418	<p><b>Documentation Only</b></p> <p>Context-sensitive help was not working in some Performance Monitor dialog boxes. The context-sensitive help has been fixed.</p>

Table 36: Teradata Manager DRs (continued)

DR	Description
119899	After adding a category set in Error Log Analyzer, the first digit of the error code did not display when the <b>Modify Category Set</b> dialog box was closed and then reopened. This issue was resolved.
120285	The logic for the Event Status Record Type Detail report was changed to match the selected filter type. Teradata Manager was modified, and <i>Teradata Manager User Guide</i> was updated.
120296	When the logged on user name contained double quotes, moving space operations failed. Creating a user name with double quotes may cause errors because the database uses double quotes for object names. <i>Teradata Manager User Guide</i> was updated with this limitation.
120426	Context-sensitive help was missing from the Session Information dialog boxes. The Session Information application was modified, and the context-sensitive help was fixed.
120446	An incorrect topic displayed for Physical Resource Usage in Performance Monitor online help. Performance Monitor was modified, and the correct topic now displays in the online help.
120569	Database Setup can be used to configure a new tdwm 13, upgrade from tdwm 12 to tdwm 13, or upgrade from tdwm 6.x to tdwm 13. See <i>Teradata Manager User Guide</i> for instructions.
121246	<b>Documentation Only</b> <i>Teradata Manager User Guide</i> includes a “Limitations” section that documents multiple long-term product limitations.
120101	When attempting to log on using the KANJISJIS_0S character set, Teradata Performance Monitor stopped responding. This issue was resolved.
120734	Teradata Manager stopped responding when creating a Blocked report. This issue was resolved.
121069	The contents of multiple Resource Usage Trend reports were incorrect. These issues were resolved.
121085	Delta CPU displayed as whole numbers in the Session Status report leading users to believe the numbers were incorrect although the numbers were correct. This issue was resolved by displaying CPU seconds with two decimal places.
121659	CPU usage percentages incorrectly reported as zero in the Resource Usage Trend reports. This issue was resolved.
121855	When multiple reports were open, Teradata Manager stopped responding after 15 minutes. This issue was resolved.
121900	When other profiles existed and were enabled, Database Setup did not recreate the DEFAULT profile, which had been previously deleted. This issue was resolved.
122074	CPU Skew incorrectly displayed a single digit in the Session Status report even though all digits correctly appeared in the Session Detail report. This issue was resolved.
122408	Teradata Manager Service stopped responding and terminated unexpectedly during a regularly scheduled network security scan. This issue was resolved.

Table 36: Teradata Manager DRs (continued)

DR	Description
123399	Multiple Space Usage reports failed with a <code>dbc.diskspacev</code> does not exist error message. This issue was resolved.
123594	When logging on using the KANJISJIS_0S character set, the Alert Policy Editor application stopped responding. This issue was resolved.
123735	No rows returned when the Space by Vproc report was displayed for a Japanese table. This issue was resolved.
123847	In the Japanese version of Locking Logger, extra spaces appeared between the database name and table name in the <b>Create Table</b> dialog box, and an error displayed indicating the database name did not exist. This issue was resolved.
123930	A numeric overflow error occurred when the Workload Definition Query List displayed which resulted in an empty report. This issue was resolved.
124054	The workload name was incorrectly truncated with single characters such as “W” and “T” after using the <b>Append Command to Batch File</b> command. This issue was resolved.
124113	Teradata Manager stopped responding when another application window overlaid a graph, and then the <b>Zoom In</b> control was used in the graph. This issue was resolved.
124133	The LogOnOff Usage application failed to launch and displayed an error message when the security mechanism was enabled using the UTF16 character set. This issue was resolved.
124154	Teradata Manager failed to add a new Teradata Database when the username and password were left empty and the security mechanism was enabled. This issue was resolved.
124433	The <b>Preview</b> window unexpectedly closed when a Monitor report was opened as a graph and viewed in Print Preview mode. This issue was resolved.
124655	Previously, Teradata Manager failed when executing an <b>APPEND</b> to a batch file due to new security restrictions on Windows Vista systems. This problem no longer occurs.
124818	Modifications to session accounts could not be made as expected through Session Information because the <b>Server &gt; Modify Account</b> button is always greyed out. The button is now always available.
124819	Teradata Manager Database Setup <i>only</i> allows the use of the limited 7-bit ASCII characters (a-z, A-Z, 0-9, \$, #, and _) for the super user name.
124901	The Table Growth report contained negative values in three columns for tables containing large quantities of rows and data. This issue was resolved.
125670	When Teradata Manager is connected as a service, the historical report <b>Analyze &gt; Resource History &gt; NODE CPU &gt; NodeCpuAverageUse</b> fails with an error that the report already exists. The duplication that caused the error is now resolved.
125927	Performance Monitor failed to display the SQL for large, complex queries. The buffer size was increased so the problem no longer occurs.
126157	Teradata Manager and Session Information failed to display the full contents for queries over 32K in Performance Monitor. Due to a Unicode conversion issue with double-byte characters, modifications were made to the buffer address to resolve the problem.

Table 36: Teradata Manager DRs (continued)

DR	Description
126841	Running the Priority Scheduler System or node data collection tasks sometimes caused a “secondary index uniqueness” error. The duplication no longer occurs.
126841	In Direct to DBS mode, dbcmanager sessions were left open after running tdclient.exe at the command line. This problem no longer occurs.
127181	In Direct to DBS mode, Teradata Manager failed to log off monitor sessions after the tdclient.exe command was run at the command prompt. Sessions now terminate properly.
127766	The Object Type of throttled Profiles were being displayed in Object Query Statistics as query bands, while query bands could not be defined. This problem no longer occurs.
130027	The Monitor > Sessions > Not Idle menu item displayed even though the Sessions View checkbox of the Teradata Manager Profile was cleared. The problem no longer occurs.
130420	The database setup routine failed without being captured in the dbsetup log file. This problem no longer occurs.
130536	After upgrading Teradata Manager, the dbsetup failed. To correct the problem, default OS settings and dbstype settings were modified.
130653	The database setup routine failed to define a primary key for the TDWMLock table, which resulted in getting a TableKind of "O" meaning NO PI (no primary index). This problem no longer occurs.
130696	The <b>OK</b> button on the Teradata Manager Login dialog wasn't enabled unless focus changed from the Profile list box to some other control. The button is now properly enabled.

## Teradata Meta Data Services

Teradata MDS provides a repository for the Teradata warehouse. It is the only repository optimized for Teradata.

### Product Version Number

Teradata MDS 13.00.01

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata Meta Data Services Installation and Administration Guide*,  
B035-3118-088A

*Teradata Meta Data Services Programmer Guide*  
B035-3047-088A

## Release Notes

### AIMVERSION Attribute

The following documentation changes support the new **aimversion** attribute:

- In the MetaXML chapter of *Teradata Meta Data Services Programmer Guide*, the following DTD syntax will be added to the MODELDESC section:

```
!ATTLIST MODELDESC
  linkid ID #IMPLIED
  action (traverse | add | remove | update) #IMPLIED
  transaction (no | yes) #IMPLIED
  aimversion CDATA #IMPLIED
```

- The following description of **aimversion** will also be added:

The integer value of the version of this metamodel. This is optional and will be NULL in the repository until set by the user. When importing, if present and the current action is add or update, the indicated value will be set for the metamodel repository object. If the current action is traverse or remove, the value will be ignored. This value maps directly to the AIMVersion property of the MetaAIMClass in the MDSMetamodel.

**Note:** Do not modify the **aimversion** value of any MDS-defined metamodel.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 37: Teradata MDS RFCs

RFC	Description
98597	When loading information into the Client Load Metamodel, Metaclient supports .RUN syntax for Teradata FastLoad, and .RUN FILE syntax for Teradata MultiLoad and Teradata TPump scripts.  Previously, the .RUN directive in an initial load script was ignored. Now, any load utility script information from a .RUN file is scanned, parsed, and imported through the utility just as if it were in the initial load script.
115346	MDS now provides views that allow an administrator to SELECT the contents of repository tables.
115347	The Database Information Metamodel (DIM) includes the JoinIndexesReferencesFunctions and ViewColumnReferencesFunctions relationships.

Table 37: Teradata MDS RFCs (continued)

RFC	Description
115348	A required option for all unique class properties was added to the MDS engine (mdsbase). This option ensures the property is given a non-null value when adding or updating a class object.
115349 117025 117026 117028	The Teradata MDS engine (mdsbase), the COM API, the Java API, and the MetaXML API allow a Meta Model designer to force objects created in certain classes to have a Description supplied for them.
115350	Mdsbase supports inclusion and retrieval of a description for relationship object associations.
115352	The DIM includes the TriggerReferencesTables relationship.
115354	Mdsbase supports filtering on selected columns when retrieving the objects in a class.
115917 116751 116754 126286	Metabridge can be used to import Object Management Group (OMG), Common Warehouse Metamodel (CWM), and XML Metadata Interchange (XMI) formatted metadata into the CWM metamodel in the MDS repository. The metadata can be generated from the following sources: <ul style="list-style-type: none"> <li>• Business Objects Data Integrator 11.52</li> <li>• CA ERwin Datamodeler 7.2</li> <li>• Cognos Framework Manager 8.2</li> <li>• SAS Data Integration Studio 9.13</li> </ul>
116221 117756	Metaload can be used to restrict the types of data to be loaded by metaload, which eliminates storing unneeded data in the repository. The DIM includes the MetaLoadType class and the SystemHasMetaLoadTypes relationship. New dialog boxes were also added to MetaManager. See <i>Teradata Meta Data Services Installation and Administration Guide</i> for more information.
116689	Teradata MDS 13.0 supports Teradata Database 13.0.
116890	MDS now has a web service interface for internal use only.
116691	The DIM now includes the Constants and Functions classes, and the ViewColumnReferencesFunctions relationship so that the value of constants a view returns for a column are maintained. If a view column can return multiple constant values, all the possible constant values will be saved in the repository.
116755	User can use MetaSurf to complete a simple compare of database objects (default) or compare all tables and columns to identify identical tables.
116758	Metaclient supports versioning and labeling when working in a version-enabled repository.  Previously, when the import of a previously imported script was detected, the script was deleted from the repository before the new import was completed. Now, instead of being replaced or overwritten, the previously imported script and all its related meta data are version updated when the user is running with a version-enabled repository.



Table 37: Teradata MDS RFCs (continued)

RFC	Description
116770	The DDL Processor includes new TriggerCreationTimestamp and TriggerEnableOrDisableTimestamp properties for storing the time when a trigger was enabled or disabled.
116771	Previously, the DDL Processor allowed views to reference other unresolved objects only. When any other object types (such as triggers) referenced unresolved objects, an error was returned, and the affected database was marked as out of sync.  The DDL Processor now supports all object types to reference unresolved objects and set sync level to zero.
116784	The MetaXML scripting interface and the MetaXML utility supports the export of meta data objects out from the repository.
116876	Teradata MDS metadata exported with MetaXML can be transformed into CWM XMI for import into CWM 1.0 XML.
117030 117031 117032	A required option for all unique class properties was added to the COM API, the Java API, and the MetaXML API to ensure that the property is given a non-null value when adding or updating a class object.
117035	The COM API supports the inclusion and retrieval of a description for relationship object associations.
117039 117040	The COM API and the Java API support filtering on selected columns when retrieving the objects in a class.
117144	The DIM includes the HashIndexReferencesTableColumns, MacroReferencesHashIndexes, and SPReferencesHashIndexes relationships.
117169	The descriptions of the DIM and Client Information Metamodel (CLM) provided by metacreate, metamigrate, and metaclient were expanded and improved.
117170	The gateway sockets code now provides encryption and decryption. Only the message header is left unencrypted.
117172	Teradata MetaSurf supports Internet Information Services (IIS) 7.0.
120436	Teradata MDS now supports IPv6 addresses.
121179	Teradata MDS now supports the Teradata Database no primary index (NoPI) table feature.
125213	Metaload now sets the IsRecursive property for DIM views for both initial loads and resync loads to evaluation whether the views are recursive.
121906	<b>Documentation Only</b>  Teradata MDS is no longer supported on MP-RAS. Related information was removed from <i>Teradata Meta Data Services Installation and Administration Guide</i> .

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 38: Teradata MDS DRs

DR	Description
118373	The SignOff call was modified to optionally indicate the specific MDS user to sign off the repository. This is needed when the original IMetaActive interface object is not around or in multi-user/multi threaded applications.
127123	The MDS parser now accepts 0x8d 0x8d as a substitute for the 0x7c 0x7c (  ) concatenation operator in order to avoid hangs.
127377	The MDS parser didn't correctly handle stored procedure calls that contain database names. This problem no longer occurs.
127391	IMetaActive.GetClassObjectKeys returned frozen objects along with the expected non-frozen objects. This problem no longer occurs.
128598 127062	MDS provided no way to set aim-version when metamodel was created, and no simple way to update it later. A new <b>aimversion</b> attribute was added to the MODELDESC element to map to the metaaim table AIMVersion property (column).
128702	Class-name and property-name for collection items are no longer case-sensitive.

## Teradata MultiLoad

Teradata MultiLoad is a command-driven utility that allows fast, high-volume maintenance on multiple tables and views of Teradata Database.

### Product Version Number

Teradata MultiLoad 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata MultiLoad Reference*,  
B035-2409-088A

## Release Notes

### Documentation Updates

Minor, last-minute changes were added to *Teradata MultiLoad Reference*. An updated version is available at <http://www.info.teradata.com/>.

### Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 39: Teradata MultiLoad RFCs

RFC	Description
93368	On Microsoft Windows operating systems, PUT can be used to install Teradata MultiLoad.
93534	Teradata MultiLoad passes .logdata in UTF16 character sets for extended security.
110172 117574	Teradata MultiLoad allows the <b>ACCEPT</b> or <b>SET</b> commands prior to using a <b>LOGON</b> or <b>LOGTABLE</b> command.
113012	Teradata MultiLoad supports the new Teradata Database 13.0 PERIOD data types. A PERIOD data type has two values that represent the start and end of the period.
113493	<b>Documentation Only</b> Usage notes for specifying DECIMAL data types were enhanced in <i>Teradata MultiLoad Reference</i> .
113816	The Teradata MultiLoad configuration file includes an AMPCHECK entry. For details, see <i>Teradata MultiLoad Reference</i> .
100763 115847	Teradata MultiLoad 13.0 is compiled with Microsoft Visual Studio 2008 and requires the new Visual Studio runtime libraries. The Teradata MultiLoad installation package includes the Microsoft Visual C++ (x86) 8.0 merge module, which is required to run Teradata Tools and Utilities 13.0 applications.
115943	<b>Documentation Only</b> Information regarding UDTs and UDMs was added to <i>Teradata MultiLoad Reference</i> .
116012	Teradata MultiLoad no longer directly links to Teradata ICU, and Teradata MultiLoad no longer needs to be recompiled and re-linked when Teradata ICU is updated.
123961	The DeleteInit event did not require any data to be sent to the notify exit routine, which caused problems for Teradata Multi-System Manager. The DeleteInit event now sends the same data as the Initialize event.

### Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 40: Teradata MultiLoad DRs

DR	Description
55595	Teradata MultiLoad correctly processes a SIGINT signal on Microsoft Windows operating systems.
110197	Certain error codes were remapped so Teradata MultiLoad correctly ceases operation when it encounters a severe error from Teradata CLIV2.
114106	Teradata MultiLoad correctly processes Unicode data <i>xx1A</i> characters, such as (U+4F1A) and (U+511A).
114114	<b>Documentation Only</b> A semicolon cannot be used in an object name because a semicolon designates the end of a Teradata MultiLoad command. See <i>Teradata MultiLoad Reference</i> for details.
121053	<b>Documentation Only</b> The ANSI/SQL DateTime Specifications were increased by 1 byte. See the <b>FIELD</b> command in <i>Teradata MultiLoad Reference</i> for details.
127941	A new <b>IGNORECONFIGERRORS</b> option allows a job to continue even though the configuration file contains syntax errors.
131133	Teradata MultiLoad jobs terminated because they failed to translate data in the NULLIF field from internal character set to session character set. The problem no longer occurs.

## Teradata Parallel Data Pump

Teradata TPump is a data-loading utility that helps maintain the data in Teradata Database using update, delete, insert, and automatic upsert functions. Teradata TPump maintains near real-time data in a data warehouse when systems are too busy to devote a designated batch window to upload data.

### Product Version Number

Teradata TPump 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata Parallel Data Pump Reference*,  
B035-3021-088A

## Release Notes

### CASE Statement Restriction

Currently, Teradata PT does not support the CASE statement with a CASE WHEN <condition> THEN NULL ELSE <expression>. Using NULL after a THEN may return incorrect results or an error.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 41: Teradata TPump RFCs

RFC	Description
93535	Teradata TPump passes .logdata in UTF16 character sets for extended security.
110172 117574	Teradata TPump allows the <b>ACCEPT</b> or <b>SET</b> commands prior to using a <b>LOGON</b> or <b>LOGTABLE</b> command.
113013	Teradata TPump supports the new Teradata Database 13.0 PERIOD data types. A PERIOD data type has two values that represent the start and end of the period.
113494	<b>Documentation Only</b> Usage notes for specifying DECIMAL data types were enhanced in <i>Teradata Parallel Data Pump Reference</i> .
100764 115848	Teradata TPump 13.0 is compiled with Microsoft Visual Studio 2008 and requires the new Visual Studio runtime libraries. The Teradata TPump installation package includes the Microsoft Visual C++ (x86) 8.0 merge module, which is required to run Teradata Tools and Utilities 13.0 applications.
115943	<b>Documentation Only</b> Information regarding UDTs and UDMs was added to <i>Teradata Parallel Data Pump Reference</i> .
116017	Teradata TPump no longer directly links to Teradata ICU, and Teradata TPump no longer needs to be recompiled and re-linked when Teradata ICU is updated.
117603	Teradata TPump issues a warning about possible restart failure when a checkpoint is specified as zero. For more information, see <i>Teradata Parallel Data Pump Reference</i> .
119469	<b>Documentation Only</b> Warnings about statement check phase behavior were added to the “Teradata TPump Early Error Detection” section in <i>Teradata Parallel Data Pump Reference</i> .
124845	The pack factor limit has been raised from 600 to 2430 to improve performance.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 42: Teradata TPump DRs

DR	Description
99207	Teradata TPump correctly handles unformatted data with variable-length characters in indicator-mode.
107071	When an error occurs that causes a Teradata TPump job to terminate, Teradata TPump waits for all outstanding requests to be complete, before ending the session.
107320	Teradata TPump correctly handles Teradata CLIV2 return codes.
108088	Previously, Teradata TPump core dumped when attempting to import a record with a size greater than 64,000 KB. Now, Teradata TPump returns an error message.
112083	When using the <i>Array Support</i> option in a <b>DML</b> command, Teradata TPump no longer limits the pack factor to what will fit in a data parcel. Now the pack factor is limited to how many data parcels can fit in the request buffer.
112243	Teradata TPump accepts quoted table name lengths greater than 29 bytes.
114106	Teradata TPump correctly processes Unicode data <i>xx1A</i> characters, such as (U+4F1A) and (U+511A).
114114	<b>Documentation Only</b> A semicolon cannot be used in an object name because a semicolon designates the end of a Teradata TPump command. See <i>Teradata Parallel Data Pump Reference</i> for details.
115921	<b>Documentation Only</b> The caution statement in the ERRORTABLE description was updated in <i>Teradata Parallel Data Pump Reference</i> .
116765	Previously, Teradata TPump jobs failed with Error 3577 when a large packing factor was specified. Now, Teradata TPump returns to a successful packing factor and continues the job.
117602	Teradata TPump issues a warning about possible restart failure when a checkpoint is specified as zero. For more information, see <i>Teradata Parallel Data Pump Reference</i> .
119438	Teradata TPump stopped responding while loading Unicode data from a UTF8 session with multibyte character set user-id, password, and Teradata Database. Teradata TPump now adjusts the packing factor if Teradata Database returns Error 3702 during a test of the packing factor phase.
119504	Teradata TPump no longer skips one input record when the error limit is exceeded and the job is restarted.
120753	Teradata TPump error messages were updated to reflect the correct product name and application violation.
121570	Teradata TPump no longer returns a Teradata Database syntax error when a high pack factor is specified.

Table 42: Teradata TPump DRs (continued)

DR	Description
123717	Teradata TPump now logs the data-related error codes 6996 and 9102 in the Teradata TPump error table and continues to process the Teradata TPump job.
130618	In Teradata TPump, scripts that used the <code>.TABLE &lt;table name&gt;</code> command caused a core dump if the target table was a no primary index (NoPI) table. This problem no longer occurs.

## Teradata Parallel Transporter

Teradata PT is an object-oriented client suite that executes multiple instances of data extracting, loading, and updating functions in a scalable, high-speed, parallel-processing environment. Teradata PT parallel extract and load capabilities can be extended with third-party products or customizations.

Teradata PT API is a set of application programming interfaces used to load and export data to and from Teradata Database systems.

### Product Version Number

Teradata PT 13.0

Teradata PT API 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata Parallel Transporter Operator Programmer Guide*  
B035-2435-088A

*Teradata Parallel Transporter Reference*  
B035-2436-088A

*Teradata Parallel Transporter User Guide*  
B035-2445-088A

*Teradata Parallel Transporter Application Programming Interface Programmer Guide*  
B035-2516-088A

## Release Notes

### Documentation Updates

*Teradata Parallel Transporter Operator Programmer Guide* and *Teradata Parallel Transporter User Guide* incorrectly include references to NCR server and obsolete NCR copyrights. Corrected versions of both publications are available at <http://www.info.teradata.com/>.

### Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 43: Teradata PT RFCs

RFC	Description
68262	Teradata PT jobs show error messages for terminated jobs on the console. Users no longer need to look up error messages in the error log. For details, see <i>Teradata Parallel Transporter User Guide</i> .
68273	All error messages are stored in the message catalog.
68943	Teradata PT Stream Operator has two new attributes: <ul style="list-style-type: none"> <li>• <b>AppendErrorTable</b>: specifies whether or not the Stream Operator will use the existing error table.</li> <li>• <b>DropErrorTable</b>: specifies whether or not the Stream Operator will drop the error table at the end of a job.</li> </ul> For details, see <i>Teradata Parallel Transporter Reference</i> .
91547	The format of the DataConnector log is modeled on the format for the non-I/O-based operator logs.
95580	Generic operating system output across platforms was enhanced. Output includes the name of platform as well as node name.
100091	Access modules built for Teradata load and unload utilities also work with Teradata PT without any recompiling or relinking.
105208	The DDL operator supports every SQL request except for statements that: <ul style="list-style-type: none"> <li>• Send data back to the DDL operator.</li> <li>• Require the DDL operator to send data back to Teradata Database.</li> </ul>
108586	With some restrictions, user credentials for external authentication logons can be entered in either the .logdata statement or the .logon statement. Some Teradata applications, such as ODBC, do not support use of the .logdata statement in the logon string.  Previously, LDAP logons required that user credentials be submitted in the .logdata statement. Now, user credentials for LDAP logons can generally be submitted in the .logon statement, with some restrictions.  For details, see <i>Teradata Parallel Transporter User Guide</i> and <i>Security Administration</i> .
109308	On IBM z/OS, Teradata PT links routines from DB2 Release 9 Version 1. These routines are compatible with other releases of DB2.



Table 43: Teradata PT RFCs (continued)

RFC	Description
111626	Teradata PT supports automatic mapping of source columns to destination columns. For details, see Teradata PT Wizard Help in <i>Teradata Parallel Transporter User Guide</i> .
111930	<p>The following 32-bit and 64-bit Teradata PT and PT API components are supported on Sun Solaris 10 with Solaris Zones:</p> <ul style="list-style-type: none"> <li>• PT API</li> <li>• PT Export Operator</li> <li>• PT ICU Library</li> <li>• PT Load Operator</li> <li>• PT Operator Support Library</li> <li>• PT Stream Operator</li> <li>• PT Update Operator</li> </ul>
111278	The Stream Operator supports the TPump -m runtime option. The -m runtime option tells TPump to keep macros that were created during the job run. These macros can be used as predefined macros for the same job.
113127	<p>The following 32-bit Teradata PT components are supported on Sun Solaris 10 with Solaris Zones:</p> <ul style="list-style-type: none"> <li>• PT Data Connector Operator</li> <li>• PT DDL Operator</li> <li>• PT Infrastructure</li> <li>• PT ODBC Operator</li> <li>• PT OS Command Operator</li> <li>• PT SQL Inserter Operator</li> <li>• PT SQL Selector Operator</li> </ul>
114721	Sample Teradata PT scripts are included in Appendix A of <i>Teradata Parallel Transporter User Guide</i> .
115177	<p>The Load operator supports the following attributes:</p> <ul style="list-style-type: none"> <li>• <b>DropErrorTable</b></li> <li>• <b>DropLogTable</b></li> </ul> <p>For details, see <i>Teradata Parallel Transporter Reference</i>.</p>
115178	<p>The Update operator supports the following attributes:</p> <ul style="list-style-type: none"> <li>• <b>DropErrorTable</b></li> <li>• <b>DropLogTable</b></li> <li>• <b>DropWorkTable</b></li> </ul> <p>For details, see <i>Teradata Parallel Transporter Reference</i>.</p>

Table 43: Teradata PT RFCs (continued)

RFC	Description
115545	<p>Teradata PT operators are valid whether or not a Teradata PT script calls a correct operator type. If not, the operator terminates with an error. In a Teradata PT script:</p> <p>A producer operator can be one of the following:</p> <ul style="list-style-type: none"> <li>• Export</li> <li>• Selector</li> <li>• ODBC</li> </ul> <p>A consumer operator can be one of the following:</p> <ul style="list-style-type: none"> <li>• Load</li> <li>• Update</li> <li>• SQL Inserter</li> <li>• Stream</li> </ul> <p>A standalone operator can be one of the following:</p> <ul style="list-style-type: none"> <li>• DDL</li> <li>• Update</li> <li>• OSCommand</li> </ul>
115588	<p>Teradata PT supports buffer-mode exporting and loading. This allows both the consumer and producer operators to package data in buffers that are readily transferable to Teradata Database.</p>
115711	<p>Teradata ICU and Teradata PT ICU version numbers can now be obtained from Teradata PT.</p>
115899	<p>Buffer-mode is supported for the SQL Selector and the Load operators. Both of these operators now pack data into buffers before putting data into the Teradata PT data stream instead of putting data row-by-row into the data stream.</p>
116093	<p>Teradata PT supports the Teradata OLE DB Access Module using the Teradata PT DataConnector operator. For details, see <i>Teradata Parallel Transporter Reference</i> and <i>Teradata Parallel Transporter User Guide</i>.</p>
116439	<p>Teradata PT supports error messages sent to the console in the following format:</p> <pre>&lt;operator name&gt;: TPTxxxxx: &lt;message text&gt;</pre> <p>where:</p> <ul style="list-style-type: none"> <li>• &lt;operator name&gt; is the name given the operator in the DEFINE OPERATOR definition.</li> <li>• xxxxx is the number assigned to that error message (as placed in the message table/catalog).</li> <li>• &lt;message text&gt; is the text of the error message.</li> </ul>
116605	<p>A new <i>-h</i> option was added to the <b>tbuild</b> command for specifying the size of shared memory to be used by Teradata PT. This option allows users to specify a memory size in the range of 1 MB to 128 MB. This enables Teradata PT to run jobs that may require more than 10 M of shared memory, which was the default shared memory limit in prior versions of Teradata PT.</p>

Table 43: Teradata PT RFCs (continued)

RFC	Description
116703	<p>Previously on Microsoft Windows operating systems, Teradata PT Wizard setup automatically installed the Java Standard Edition runtime environment (JRE) 1.4.2_06 in the Teradata PT Wizard installation folder. Now, Teradata PT Wizard setup checks the system to determine whether JRE 1.4.2_06 or higher is already installed.</p> <p>If JRE 1.4.2_06 or higher is installed on the system, the Teradata PT Wizard setup uses the JRE version on the system.</p> <p>If JRE 1.4.2_06 or higher is not installed on the system, the Teradata PT Wizard setup displays a message that JRE 1.4.2_06 or higher is required and prompts the user to continue the installation in interactive mode.</p> <p>If silent installation is used and JRE 1.4.2_06 or higher is not installed on the system, Teradata PT Wizard setup writes a warning message to the silent install log and completes the installation process.</p>
118578	<p>When the LOB length specified in the <b>DEFINE SCHEMA</b> statement does not match the actual data passing into the consumer operators that support LOBs in deferred-mode, an length error is returned.</p>
118914	<p>Buffer-mode is supported for the Teradata PT DataConnector operator.</p>
119187	<p>Teradata PT SQL Inserter operator validates LOB data file size against the LOB column size specified in the Teradata PT schema. For details, see <i>Teradata Parallel Transporter User Guide</i>.</p>
108165 114255	<p>Teradata PT Stream operator displays the following new DML options:</p> <ul style="list-style-type: none"> <li>• MARK EXTRA ROWS</li> <li>• MARK EXTRA UPDATE ROWS</li> <li>• MARK EXTRA DELETE ROWS</li> <li>• IGNORE EXTRA ROWS</li> <li>• IGNORE EXTRA UPDATE ROWS</li> <li>• IGNORE EXTRA DELETE ROWS</li> </ul> <p>For details, see <i>Teradata Parallel Transporter Reference</i>.</p>
115530 115583 115589 115637 119175	<p>The following Teradata PT components support LOBs loading or extracting:</p> <ul style="list-style-type: none"> <li>• DataConnector Operator</li> <li>• SQL Inserter Operator</li> <li>• SQL Selector Operator</li> </ul> <p>The Stream Operator does <i>not</i> support loading LOB data.</p> <p>For details, see <i>Teradata Parallel Transporter User Guide</i>.</p>
112981 115618 115624 115723 119298	<p>Teradata PT supports the new Teradata Database 13.0 PERIOD data types. For details, see the chapter on “Object Definitions and the APPLY Statement” in <i>Teradata Parallel Transporter User Guide</i>.</p>
123634	<p>The Data Connector Operator supports multiple consumer instances, with a different output file for each instance based on the FileName attribute and the operator instance.</p>

Table 43: Teradata PT RFCs (continued)

RFC	Description
124643	The Data Connector Operator was streamlined to improve the processing of delimited data.
125018	A new runtime option for <b>tbuild</b> allows users to redirect log files at the job level.
125313 107507	Support for 32-bit Solaris Opteron has been added.
125319	A new Data Connector Operator attribute called <b>FileList</b> creates a file that contains a list of other files to be processed.
127722	If script coders use <b>SELECT</b> followed by a list of all of the columns in an input row, Teradata PT handles the script as if <b>SELECT *</b> was used instead in order to improve performance.
127774	The syntax requirements have been simplified. When a source and a target table (one of which is a Teradata table) have the same schema, the declarative section of the job script is no longer needed. For more information, see <i>Getting Started with Teradata Data Warehouse Appliance 255x</i> .
128126	For the Selector Operator, the response buffer length has been increased to 1MB, yielding a performance improvement for data retrieval processes.
128718	The Buffer mode is now supported in the ODBC Operator.
129332	A new command line option, <b>tdload</b> , allows users to load data easily from a delimited flat file to a Teradata Database table. With only a server name, user name, target table name, and data file name, Teradata PT automatically generates a script and executes the load job. For more information, see <i>Getting Started with Teradata Data Warehouse Appliance 255x</i> .

Table 44: Teradata PT API RFCs

RFC	Description
89714	Teradata PT API is supported on IBM z/OS operating systems.
110698	Teradata PT API includes a threading example for IBM z/OS.
110703	Teradata PT API includes a multi-node example for IBM z/OS.
114272 114964	When installing Teradata PT API, users can choose between the following 32-bit API libraries: 32-bit library built with the gcc 2.96 compiler or the 32-bit library built with the gcc 3.3 compiler.
116133	Teradata PT API supports the new Teradata Database 13.0 PERIOD data types. See <i>Teradata Parallel Transporter Application Programming Interface Programmer Guide</i> for details.

Table 44: Teradata PT API RFCs (continued)

RFC	Description
116134	<p>Teradata PT API supports the following new DML options:</p> <ul style="list-style-type: none"> <li>• MARK EXTRA ROWS</li> <li>• MARK EXTRA UPDATE ROWS</li> <li>• MARK EXTRA DELETE ROWS</li> <li>• IGNORE EXTRA ROWS</li> <li>• IGNORE EXTRA UPDATE ROWS</li> <li>• IGNORE EXTRA DELETE ROWS</li> </ul> <p>For more information, see <i>Teradata Parallel Transporter Application Programming Interface Programmer Guide</i>.</p>
116137	<p>The TD_APPENDERRORTABLE and TD_DROPERRORTABLE optional attributes were added to the Stream driver to support using an existing error table across jobs. See <i>Teradata Parallel Transporter Application Programming Interface Programmer Guide</i> for more information.</p>
116139	<p>Teradata PT API dynamically creates a schema when using the Teradata PT Export driver and the schema can be shared with other instances of Teradata PT API using different drivers.</p>
117623	<p>Teradata PT API applications do not need to store checkpoint data when using the checkpoint and restart features. The TD_Evt_RowsCheckpointed event returns the total number of rows each instance has checkpointed. This event is available for the Load, Update, and Stream drivers.</p>
119675	<p><b>Documentation Only</b></p> <p>Instructions for executing macros using the Stream driver were added to <i>Teradata Parallel Transporter Application Programming Interface Programmer Guide</i>.</p>
120862	<p><b>Documentation Only</b></p> <p>Teradata PT API is no longer supported on MP-RAS. Related information was removed from <i>Teradata Parallel Transporter Application Programming Interface Programmer Guide</i>.</p>
123343	<p>The Load driver supports the following optional attributes:</p> <ul style="list-style-type: none"> <li>• TD_DROPERRORTABLE.</li> <li>• TD_DROPLOGTABLE</li> </ul> <p>The Update driver supports the following optional attributes:</p> <ul style="list-style-type: none"> <li>• TD_DROPERRORTABLE</li> <li>• TD_DROPLOGTABLE</li> <li>• TD_DROPWORKTABLE</li> </ul> <p>See <i>Teradata Parallel Transporter Application Programming Interface Programmer Guide</i> for details.</p>
123906 123956	<p>A g++ 4.1 build was added to the 32-bit and 64-bit packages of Teradata PT API to support the application STL code built with g++ 3.4 and up.</p>

Table 44: Teradata PT API RFCs (continued)

RFC	Description
130830	The previously used namespace of <code>ncr::teradata::client::API</code> is supported so partners can use a single build of their application for both the 12.0 and 13.0 versions of Teradata PT API.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 45: Teradata PT DRs

DR	Description
118343	<b>Documentation Only</b> Error messages were added to the “Troubleshooting” section in <i>Teradata Parallel Transporter User Guide</i> .
123504	If a Teradata PT operator failed at checkpoint time, file archival also failed. This problem no longer occurs.
124000	When Teradata PT load jobs were run in parallel, a Data Stream error occurred intermittently. This error no longer occurs.
125166	On Linux and UNIX operating systems, if the environment variable <code>TWB_ROOT</code> was undefined, the execution of Teradata PT caused a core dump. This error no longer occurs.
125231	Performance was improved for jobs that contain the <code>TBUILD -S</code> option.
127541	On UNIX and Linux operating systems, Teradata PT jobs failed when the <code>twbclean</code> file could not be opened for output. This error no longer occurs.
127720	On Windows, if a script contained carriage return characters at the end of SQL statements, the script failed. This error no longer occurs.

Table 46: Teradata PT API DRs

DR	Description
117343	<b>Documentation Only</b> Information regarding <code>TIME</code> , <code>TIMESTAMP</code> , and <code>INTERVAL</code> data types conversions was added to <i>Teradata Parallel Transporter Application Programming Interface Programmer Guide</i> .
118301	<b>Documentation Only</b> Information on the <code>TD_LOG_TABLE</code> attribute for the Load, Update, and Stream drivers was updated in <i>Teradata Parallel Transporter Application Programming Interface Programmer Guide</i> .

Table 46: Teradata PT API DRs (continued)

DR	Description
126045	Multi-thread programs failed when exporting data from different tables in parallel. A variable was modified to resolve the problem.

## Teradata Preprocessor2

Teradata Preprocessor2 (PP2) for embedded SQL allows you to incorporate SQL statements into application programs that access data in Teradata Database. PP2 resolves and expands Teradata SQL statements incorporated in an application program. Using PP2, you can precompile and execute applications that run on one operating system and access databases on the same or on a different operating system.

### Product Version Number

Teradata PP2 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*SQL Stored Procedures and Embedded SQL*  
B035-1148-098A

*Teradata Preprocessor2 for Embedded SQL Programmer Guide,*  
B035-2446-088A

### Release Notes

None.

### Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 47: Teradata Preprocessor2 for Embedded SQL RFCs

RFC	Description
59763	PP2 is supported on Hewlett-Packard HP-UX Intel Itanium (Itanium build).
89347	Teradata PP2 supports DEFAULT VALUES in INSERT SQL statements.
97693	Teradata PP2 supports the Auto Generated Key Retrieval feature, which allows a client application to retrieve an identity column value or a whole row from Teradata Database.
115740	Teradata PP2 allows scalar sub-queries everywhere a value expression is allowed.
115741	Teradata PP2 supports the new Teradata Database 13.0 PERIOD data types. A PERIOD data type has two values that represent the start and end of the period.
115742	The Teradata PP2 parser was changed to accept the new request, <b>AS USER &lt;USER NAME&gt;</b> , before any DDL or Data Manipulation Language statements. This feature allows Teradata PP2 type names and escape sequences to be expanded in SQL statements containing the AS USER prefix.
115845	Teradata PP2 supports the Teradata Database trusted sessions feature (user impersonation with query banding). Changes were made to the <b>SET QUERY_BAND</b> command to support the Query Band feature. For more information, see <i>Teradata Preprocessor2 for Embedded SQL Programmer Guide</i> .
115850	Beginning with this release, earlier versions of Teradata PP2 work with new Teradata Database releases without having to upgrade Teradata PP2.
115943	<b>Documentation Only</b> Information regarding UDTs and UDMs was added to <i>Teradata Preprocessor2 for Embedded SQL Programmer Guide</i> .
119274	Teradata PP2 is supported on IBM CICS® Transaction Server for z/OS V3.2.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 48: Teradata PP2 DRs

DR	Description
113575	When a comma was detected while parsing a CASE expression, Teradata PP2 incorrectly assumed the CASE expression was completed and checked that all tokens were parsed. Teradata PP2 was modified and this error no longer occurs.
114688	Teradata PP2 incorrectly returned a runtime 10302 error while executing GRANT statement. Teradata PP2 was modified and this error no longer occurs.
115825	A short integer indicdata parcel length can have only the length of the indicator byte when passed in by a DBCX. In this instance, the overall DBC Extension accounted for the proper length, but because the data parcel included a length of zero for an individual field, Teradata CLIV2 looped trying to find the next parcel in the extension. Teradata PP2 was modified and this error no longer occurs.



Table 48: Teradata PP2 DRs (continued)

DR	Description
122905	Teradata PP2 incorrectly returned the SQL code 0 when an UPDATE or DELETE statement did not affect any records or rows. Teradata PP2 was modified and now correctly returns SQL Code 100 when an INSERT, UPDATE, or DELETE statement does not affect any records or rows.

## Teradata Query Director

Teradata Query Director (Teradata QD) is a session routing tool designed to enhance the availability of multiple systems using session balancing and failover options.

### Product Version Number

Teradata QD 13.00.01

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata Query Director User Guide*,  
B035-2510-088A

### Release Notes

None.

### Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 49: Teradata QD RFCs

RFC	Description
109361	Teradata QD includes a new trace file called <i>tracelevel4</i> . The <i>trclvl</i> option and the <i>SockClient</i> update <i>trclvl</i> command allow users to set the trace level to 4. The trace file 4 is optional just like the other trace files. You can have trace 4 with or without any other trace level set. See <i>Teradata Query Director User Guide</i> for details.

Table 49: Teradata QD RFCs (continued)

RFC	Description
109364	Earlier versions of Teradata Tools and Utilities applications can now connect to later versions of Teradata Database through Teradata QD. For example, Teradata Tools and Utilities 7.1 clients can access Teradata Database V2R6.x or later through Teradata QD.
116881	Teradata QD supports Teradata Database 13.0 in a heterogeneous environment with other Teradata Database versions.
116906	To strengthen Teradata QD security, the SockClient health command was changed; the -sql option is no longer available.
116909	Teradata QD supports Unicode. International names can be used in userids and account strings.
116910	<p>Teradata QD recognizes four types of user pattern matching and four types of account string pattern matching:</p> <ul style="list-style-type: none"> <li>• Exact match</li> <li>• Sub-string wildcard match</li> <li>• Trailing wildcard match</li> <li>• Leading wildcard match</li> </ul> <p>For additional information, see <i>Teradata Query Director User Guide</i>.</p>
116911	The lack of an entry in the Teradata QD routing file can not be used to prevent users from logging on to Teradata Database. If a user is not found in the routing file, then the routing defaults to ANY. However, you can block unknown users from accessing a Teradata Database from Teradata QD. For instructions, see <i>Teradata Query Director User Guide</i> .
116912	Teradata QD sends a logoff message to each connected Teradata Database, when a client application disconnects.
116914	Teradata QD supports .Net Data Provider for Teradata.
119846	Teradata QD supports Simple and Protected GSS-API Negotiation (SPNEGO). See <i>Teradata Query Director User Guide</i> for details.
116896	Teradata QD has expanded LDAP support to include Active Directory Application Mode (ADAM) directories and Novell's eDirectory.
123952	Teradata QD is available as a service on Linux.
126859	The error code file in Teradata QD can be updated without having to stop or restart the application.
127253	Previously, Teradata QD users and account strings were defined in the routing rule. Users can now be arranged in user-defined groups.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 50: Teradata QD DRs

DR	Description
123138	On Windows systems, shutting down Teradata QD caused Error 10038: operation on non-socket. The problem no longer occurs.
123168	Service param file did not accept parameters with spaces. The problem no longer occurs.
125639	Teradata QD produced memory allocation errors during ODBC sessions. The errors no longer occur.
126265	Previously, a Teradata QD <b>LCD</b> command prevented failover when the Host Active Character Sets did not match. In the case of Named, logon was prevented. The problems no longer occur.
128664	Teradata QD attempted to re-logon after the client logged off. The problem no longer occurs.

## Teradata Query Scheduler

Teradata QS provides a database request scheduling service. Queries can be scheduled through client applications, such as the Scheduled Request Viewer and Teradata SQL Assistant. The product consists of client, server, and administrator components.

The Teradata QS Administrator has features to:

- Migrate earlier versions of the Teradata QS database (dbqrymgr)
- Schedule requests
- Set up user profiles
- Set up time frames in which the requests are executed

The Teradata QS client components have features to schedule and monitor SQL requests.

The Teradata QS server components save, process, and execute Teradata QS client requests that have been scheduled.

### Product Version Number

Teradata QS 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata Query Scheduler Administrator Guide*,  
B035-2511-088A

*Teradata Query Scheduler User Guide*,  
B035-2512-088A

## Release Notes

None.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 51: Teradata QS RFCs

RFC	Description
92935	Teradata QS logs the Request ID and Job ID prior to sending the SQL to Teradata Database.
103408	A session query band can be assigned to a scheduled request when the target database is Teradata Database 12.0 or later.
104302	Teradata QS uses the time range from the database to automatically reschedule a query. If the time range is absent, the query is not automatically rescheduled. From the Teradata QS Viewer, the status shows <code>Restricted</code> and the database error displays in the Information column.
118182	Teradata QS supports the new Teradata Database 13.0 PERIOD data types. A PERIOD data type has two values that represent the start and end of the period.
118226	Teradata QS displays context-sensitive help when using Internet Explorer 7.0 as the default browser.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates. There are no DRs for this product for this release.

# Teradata SQL Assistant

Teradata SQL Assistant for Microsoft Windows is a query and information discovery tool used to retrieve data from Teradata Database or any ODBC-compliant database server. Users can then view, manipulate, or store the extracted data on their desktop PC. .NET Data Provider for Teradata can also be used to connect to Teradata Database from Teradata SQL Assistant for Microsoft Windows.

## Product Version Number

Teradata SQL Assistant for Microsoft Windows 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata SQL Assistant for Microsoft Windows User Guide*,  
 B035-2430-088A

## Release Notes

### Product Limitations

For specific limitations that apply to this release of Teradata SQL Assistant for Microsoft Windows, see *Teradata SQL Assistant for Microsoft Windows User Guide* or read the *ReleaseNotes.txt* file in the install directory.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 52: Teradata SQL Assistant RFCs

RFC	Description
84116	A <b>Page Setup</b> command was added to the <b>File</b> menu that allows users to print output on legal-size paper. See <i>Teradata SQL Assistant for Microsoft Windows User Guide</i> for details.
117932	Teradata SQL Assistant has been completely redesigned. It continues to look and act like previous versions of the product, but now it requires Microsoft .Net. For more information, see <i>Teradata SQL Assistant for Microsoft Windows User Guide</i> .
122172	Teradata SQL Assistant removes comments enclosed in a <code>/* . . . */</code> string before submitting the query to an IBM DB2® or Microsoft Access™ data source.
128790	Installing the current version of Teradata SQL Assistant now removes all previous versions.
129885	In query results, failed statements are now highlighted to make them easier to find.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 53: Teradata SQL Assistant DRs

DR	Description
97715	Teradata SQL Assistant stopped responding when you quickly right-clicked twice on a Tree node. Teradata SQL Assistant was modified and this error no longer occurs.
110866	Previously, directory and file names longer than 128 bytes could not be saved as an Excel file. Teradata SQL Assistant was modified and file can now be saved.
121382	Previously, queries containing either BEGIN QUERY LOGGING or BEGIN LOGGING commands were not correctly parsed. Teradata SQL Assistant was modified and this error no longer occurs.
126156	Teradata SQL Assistant refocuses the query window to the beginning of code when a snippet of the larger code is highlighted or executed. The problem no longer occurs.
125543	Teradata SQL Assistant was only returning data if the statement type was a certain type. Current logic now returns a result set unless the statement is known as one that never returns a result.
125604	Any column defined as Decimal(n,m) where n < 29 and m > 14 resulted in output truncated to only 2 decimal places. The error no longer occurs.
125729	Improvements were made to a variety of functions including menu closing, eliminating duplicate accelerator keys, improving tab behavior, properly enabling certain menus, adding Elapse Time to completion messages, improving compatibility with .Net Provider and ODBC, handling whitespace during parsing, supporting the FOR in PIVOT clauses, improving the masking of passwords, and improving behavior when only one statement is returned.
126156	Previously, Teradata SQL Assistant refocused to the beginning of the code in the Query Window whenever any part of the code was highlighted and executed. This problem no longer occurs.
126226	Error messages that occur in multi-statement queries are now displayed on the status bar.
126239	In Teradata SQL Assistant, passwords have been masked only if they appear in the first statement in a query. Now, passwords are all masked.
127110	Teradata SQL Assistant unexpectedly closes if policy files for Teradata .Net Data Provider 13.0 are missing. Also, the application unexpectedly closes when the <b>Shift</b> or <b>Cntl</b> keys are used in an Answer cell. Neither problem occurs any longer.
127171	New parser rules have been added for the FROM keyword and for the phrase "BETWEEN aaa AND bbb" to better govern line breaks.
127254	A result message was added for exports to alert users that the operation resulted in no data being written to the Export file.
127405	Teradata SQL Assistant now loads faster in a Microsoft .Net framework.

Table 53: Teradata SQL Assistant DRs (continued)

DR	Description
127518	Improvements were made to a variety of functions including highlighting Access functions, correcting cursor behavior, and dialog box behavior.
127609	Previously, Teradata SQL Assistant did not mask passwords that contained syntax errors, such as including quotation marks. This problem no longer occurs.
129117	When using Teradata .Net Provider 13.0, Teradata SQL Assistant displays column names instead of column titles. The error no longer occurs.
129475	A variety of improvements were made to window behavior, scroll bars, column results, Explain output, and Answerset output.
129927	Teradata SQL Assistant supports the authentication mechanisms supported by .Net Data Provider for Teradata, namely SPNEGO, LDAP, and TD2.
130174	Previously, CASE and END CASE did not have a set of scope keywords, which resulted in errors if the statements ended with semicolons. This error no longer occurs.
130447	The History window was displaying only the first line of SQL text. Two new display options were added to control how text is displayed.
130448	Columns containing uppercase strings are not wide enough to see all the data. Columns were resized.
130548	The History window has a new field, <b>SQL Text</b> , that filters for matching rows. Also, wildcard characteristics were modified, and a <b>Clear</b> button was added.
130571	Duplicate queries were not deleted from the History window after a query was re-executed. The problem no longer occurs.
130949	Teradata SQL Assistant was not saving the file name when Query files were opened, which prompted users to have to enter the file name in order to save the query. The problem no longer occurs.
131047	Query start times are now displayed in Executing messages so users can determine how long a query has run.
131209	The result code column was displaying incorrect values after a History filter was applied. The error no longer occurs.
131439 131600	Improvements to the functionality of the graphical user interface include resetting certain display sizes, improving scroll behavior, successfully capturing Explain statements that don't begin with "Explain," getting accurate results when stopping the row return limit while executing multiple SELECT statements, eliminating certain locking and error behaviors, resetting focus, properly displaying Answerset options, improving readability, and maintaining History after upgrades.
132104	If an ALTER table query was aborted during the commit phase, Teradata SQL Assistant shows the query as successfully completed, while Teradata Manager shows the query as aborted. The error no longer occurs.

# Teradata SQL Assistant/Web Edition

Teradata SQL Assistant/Web Edition is a web-based query tool that allows you to compose queries, submit them to Teradata Database, and then view the results in a web browser.

## Product Version Number

Teradata SQL Assistant/Web Edition 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata SQL Assistant/Web Edition User Guide*,  
B035-2505-088A

## Release Notes

None.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software. There are no RFCs for this product for this release.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 54: Teradata SQL Assistant/Web Edition DRs

DR	Description
106373	<p>Teradata SQL Assistant/Web Edition displayed a Server error when a user cleared the <b>Close answer set tabs before submitting a new query</b> option and submitted more than one query. In addition, Teradata SQL Assistant/Web Edition did not populate or handle the child windows, such as <b>Option</b> and <b>Edit History</b>, properly when user name included multibyte characters.</p> <p>Teradata SQL Assistant/Web Edition was modified and these errors no longer occur.</p>



Table 54: Teradata SQL Assistant/Web Edition DRs (continued)

DR	Description
112984	On Microsoft Vista™ Enterprise x64 operating systems, Teradata SQL Assistant/Web Edition could not connect to Teradata Database. Teradata SQL Assistant/Web Edition was modified and this error no longer occurs.

## Teradata Statistics Wizard

Teradata Statistics Wizard analyzes workloads, automates the collection of new statistics or re-collection of existing statistics, and makes recommendations to improve workload performance.

### Product Version Number

Teradata Statistics Wizard 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata Statistics Wizard User Guide*,  
B035-2503-088A

### Release Notes

None.

### Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 55: Teradata Statistics Wizard RFCs

RFC	Description
112734	Teradata Statistics Wizard supports new Unicode V-views.

Table 55: Teradata Statistics Wizard RFCs (continued)

RFC	Description
117192	Teradata Statistics Wizard includes Full or Sampled Statistics Recommendations that retrieves recommendations based on age of collection, table skew, table growth, general statistics collection rules, table size, unique columns, and unique indices. See <i>Teradata Statistics Wizard User Guide</i> for more information.
117193	Teradata Statistics Wizard collects statistics on a sample of the data to reduce the resources required and the time to perform statistics collection. For details, see <i>Teradata Statistics Wizard User Guide</i> .
117194	Teradata Statistics Wizard performs auto-search of statistics candidates based on new table and index creations.
117246	Teradata Statistics Wizard supports large query importing. When importing queries larger than 10 KB, Teradata Statistics Wizard uses the SQL table for workload definitions.
118781	Teradata Statistics Wizard supports statistics recommendations and collections on join, hash, and PPI join indexes, which improves plan optimization.
122167	For SAS, support has been added for database tables that have no primary index (NoPI tables).

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates. There are no DRs for this product for this release.

# Teradata System Emulation Tool

Teradata SET allows you to emulate Optimizer-generated data from a target system, generate query plans, and then import that information to a test system where you can run queries without affecting your production system.

## Product Version Number

Teradata SET 13.0

## Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

## Documentation

*Teradata System Emulation Tool User Guide*,  
B035-2492-088A

## Release Notes

None.

## Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 56: Teradata SET RFCs

RFC	Description
112732	Teradata SET supports new Unicode V-views. See <i>Teradata System Emulation Tool User Guide</i> for more information.
115863 116068	Teradata SET reports missing access rights as errors and allows the rights to be granted after an export, import, or cleanup request has failed. Rights can be granted automatically or manually on a database or on an object.
117249	Teradata SET supports a more detailed display of Query, Explain Text, Step Report, and Plan Information in the <b>Import</b> window.
117690	Teradata SET supports consistent display of Explain Text in the <b>Import</b> window for queries entered manually and queries captured from the QCD.
118778	Teradata SET supports enhanced time-limit and abort capabilities, making it easier to: <ul style="list-style-type: none"> <li>• Stop a long-running index analysis before it completes while retaining any identified recommendations</li> <li>• Review the recommendations as though the complete analysis was run</li> <li>• Continue an index analysis from the point at which the analysis was terminated</li> </ul>
118783	Teradata SET supports improved estimates for statistics during import and export, which result in improved plan optimization.
122166	For SAS, support was added for database tables that are created with no primary indexes (NoPI tables).

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 57: Teradata SET DRs

DR	Description
126517	The import of object definitions continues indefinitely when access privilege errors are incorrectly resolved. This problem no longer occurs.

Table 57: Teradata SET DRs (continued)

DR	Description
126518	Teradata SET did not display error messages when failing to export cost parameters. This problem no longer occurs.
126519	GRANT Access privileges do not need to be displayed for missing Monitor Access privileges. This problem no longer occurs.
126643	Teradata SET intermittently failed when object definitions were exported. This problem no longer occurs.
128142	Teradata SET resolved missing access privilege errors during import of object definitions by submitting appropriate grant statements. Import of object definitions failed when grant statements failed. This problem no longer occurs.

## Teradata Visual Explain

Teradata VE allows you to view and analyze the execution plans of complex SQL statements, and then fine-tune those SQL statements to make sure your Teradata Database accesses data most effectively.

### Product Version Number

Teradata VE 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata Visual Explain User Guide*,  
B035-2504-088A

### Release Notes

None.

### Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 58: Teradata VE RFCs

RFC	Description
85166	Teradata VE provides access to a partition count. Access is available in the <b>Table</b> icon pop-up details and Step Information report, making it easier to determine when partition elimination is used to improve performance.
112733	Teradata VE supports new Unicode V-views. See <i>Teradata Visual Explain User Guide</i> for more information.
116558	Textual compare reports can be viewed vertically improving readability. Reports can be displayed side by side or one above the other.
117188	<p>Explain results for execution plans can be viewed graphically or textually directly from an XML schema or plan logged in DBQL, which improves performance while capturing query execution plans.</p> <p>Viewing Execution plans from DBQL is limited to XML plans no larger than 31 K. To view DBQL XML plans larger than 31 K, users must use the traditional QCD plan capture method. See <i>Teradata Visual Explain User Guide</i> for details.</p>
117248	Teradata VE provides access to object use counts. Access is available in the <b>View</b> menu, Table icon pop-up details, and Object Use Count report, making it easier to determine when and how objects are used.
118590	<p>Teradata VE support the following Query Capture Facility/Query Capture Database enhancements:</p> <ul style="list-style-type: none"> <li>• A relation table for PPI partition count</li> <li>• A new table for capturing XML plans</li> <li>• A new table for Restart enhancements</li> </ul>
122168	For SAS, support has been added for no primary index (NoPI) tables.
128143	Support has been added for “Actual versus Estimated” data in DBQL and QCD so data can be compared in XML plans.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 59: Teradata VE DRs

DR	Description
116553	Teradata VE properly saves and refreshes toolbar settings.
116555	Information in the <b>Summary Information</b> window displays vertically on separate lines to improve readability.
116556	Teradata VE displays the Complete Information report whenever queries are compared instead of displaying only the report type listed in the <b>Select item</b> list.
116557	Teradata VE opens other reports in the foreground instead of the background when the bulk compare summary report is open.

Table 59: Teradata VE DRs (continued)

DR	Description
116559	Teradata VE includes a <b>Merge into</b> statement icon used to merge one or more rows into a table.
129106	Teradata VE supports the new QCD relationkind value “O” for no primary index (NoPI) tables.

## Teradata Workload Analyzer

Teradata WA helps DBAs identify classes of queries (workloads) and provides recommendations on workload definitions and operating rules to ensure that database performance meets Service Level Goals (SLGs). When DBAs can control resource allocations, they are better able to ensure satisfactory response times for critical queries. Teradata WA helps DBAs effectively manage distribution of resources using graphical displays, such as the following:

- Distribution graphs showing resources distribution for workload queries
- Histograms showing actual service levels, along with recommended settings

In addition, Teradata WA supports the conversion of existing Priority Definitions (PDs) sets into new workloads. This is helpful for users of earlier versions of Teradata Priority Scheduler Administrator, who created PD sets to control allocation and consumption of system resources.

### Product Version Number

Teradata WA 13.0

### Supported Versions of Teradata Database

- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata Workload Analyzer User Guide,*  
B035-2514-088A

### Release Notes

None.

### Requests for Change

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software.

Table 60: Teradata WA RFCs

RFC	Description
116065	WHERE classification criteria, such as Data Objects (Database, Tables, Views, Macros, and Stored Procedures), are automatically included in a workload analysis.
116066	N-level analysis allows for recursive, deeper analysis of workload classifications with WHO, WHAT, and WHERE classifications until a best-fit candidate workload is reached.
116110	Teradata WA 13.0 works with Teradata Database 12.0. However, new Teradata Database-driven 13.0 features are not available.
116483	A Statement Type correlation parameter was added to classify multi-statement SQL requests in a workload.
116484	Objects can be specified to be included or excluded for each classification type. Split workloads can be modified to include or exclude objects for each classification type.
116485	Standard wild card classifications, such as asterisk (*) and question mark (?), can be used during classification to avoid working with very long Include or Exclude lists.
118194	Workloads display in the <b>Candidate Workloads</b> tree according to evaluation order.
118748	Teradata WA supports DBQL Dictionary changes for Teradata Database 13.0.
120019	The default number of distribution histogram buckets is now 10, instead of 5.
120020	The full Query band name displays on Correlation report when a query band is selected for analysis.
120021	The distinct value counts for a workload can be displayed from Teradata WA. The distinct value counts help quickly identify all possible correlation parameters and available ranges for distribution parameters. See <i>Teradata Workload Analyzer User Guide</i> for more information.

## Discrepancy Reports

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates.

Table 61: Teradata WA DRs

DR	Description
114660	The <b>Navigation Wizard</b> command was removed from <b>Help</b> menu. However, a <b>Navigation Help</b> icon is still available.
116409	Normalized CPU Time and Un-normalized CPU Time columns were added to the Unassigned Request, Workload, and second level cluster analysis reports. In second level cluster analysis, Normalized CPU Time and Un-normalized CPU Time were added in the Distribution Parameter list.
116598	Previously, a blank dialog box displayed when the <b>Browse</b> button was clicked in the <b>View CPU Distribution</b> dialog box. This error no longer occurs.

Table 61: Teradata WA DRs (continued)

DR	Description
127166	The pre-validation process of Teradata WA was modified so users are no longer required to have access to the DBC.

## Teradata Access Module for Tivoli

Beginning with Teradata Tools and Utilities 13.0, Teradata Access Module for Tivoli® is being renamed Tivoli Storage Manager Teradata Extension. The product is not included on the Tape Storage Management Enablers CD, and *Tivoli Storage Manager Teradata Extension Installation and User Guide* is not included on the Teradata User Documentation CD-ROM.

However, Teradata Access Module for Tivoli 01.00.02, released with Teradata Tools and Utilities 12.0, is compatible with Teradata Database 13.0. Tivoli Storage Manager Teradata Extension is released with Teradata TARA 13.0.

## Transparency Series/Application Programming Interface

The Transparency Series/Application Programming Interface (TS/API) provides access to Teradata Database using a selected set of Independent Software Vendors (ISV) products designed to retrieve data stored in DB2 or SQL/DS databases.

### Product Version Number

TS/API 13.0

### Supported Versions of Teradata Database

- Teradata Database V2R6.0
- Teradata Database V2R6.1
- Teradata Database V2R6.2
- Teradata Database 12.0
- Teradata Database 13.0

### Documentation

*Teradata Transparency Series/ Application Programming Interface User Guide*,  
B035-2419-088A

### Release Notes

None.



## **Requests for Change**

RFCs introduce new features and track changes that enhance the operation of Teradata Tools and Utilities software. There are no RFCs for this product for this release.

## **Discrepancy Reports**

DRs track corrections and updates to Teradata Tools and Utilities software and to documentation affected by the updates. There are no DRs for this product for this release.



# Teradata Tools and Utilities Documentation

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Teradata Tools and Utilities documentation consists of product-specific user manuals, a release definition (this document), and a CD. These are available from several sources:

- As part of a software order
- By download from [www.info.teradata.com](http://www.info.teradata.com)
- By request

## Software Orders

With software orders, you receive up to four fully indexed and searchable Teradata User Documentation CDs, free of charge. The number you receive depends on the size of your system.

## Downloadable Documentation

Free, downloadable versions of Teradata Tools and Utilities documentation are available from [www.info.teradata.com](http://www.info.teradata.com) including:

- Web-only Release Definitions
- PDF versions of all documentation available for this release
- An image of the Teradata User Documentation CD for this release

To locate a publication title or ID to use when searching for publications associated with this release, see “[Publication Titles and IDs](#)” on page 118.

## Release Definition

Release Definitions are occasionally updated to capture products released asynchronously to the Teradata GCA date. Updated versions are available on the web.

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### To view the most recent iteration of this document

- 1 Go to [www.info.teradata.com](http://www.info.teradata.com), and click **Data Warehousing** under the left menu.
- 2 Click **Teradata Release Definitions** under **Data Warehousing Publications**.

- 3 Click **Teradata Tools and Utilities** under **Teradata Release Definitions**. A list of Teradata Tools and Utilities release definitions appears.
- 4 Locate *Teradata Tools and Utilities Release Definition, B035-2029*.

For information on Open Teradata Backup products, use the same process to locate *Backup Application Software Release Definition, B035-3114*.

## User Manuals

Product-specific user manuals are available from the web. Use the Teradata Information Products Publishing Library site to view or download the most recent versions of all manuals.

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### To view specific user manuals or manuals associated with specific products

- 1 Go to [www.info.teradata.com](http://www.info.teradata.com).
- 2 Click **General Search** under the left menu.
- 3 Enter pertinent information about a specific product or manual, such as the title in the **Publication Title, Description, Class, or Keywords** box.
- 4 Click **Search**.

## CD Image

You can download the Teradata User Documentation CD image to burn your own CDs. The image for this release contains all user documentation for:

- Teradata Database 12.0
- Teradata Tools and Utilities 13.0

The Teradata User Documentation CD features an index (accessible through the Search function in Acrobat Reader) that allows you to search for text strings across all of the documents on the CD.

**Caution:** The image file is large. Depending on your connection, it might take a long time to download.

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### To download a CD-ROM image

- 1 Go to [www.info.teradata.com](http://www.info.teradata.com).
- 2 Under the **Online Publications** subcategory, **Browse by Category**, click **Data Warehousing**.
- 3 Click **CD-ROM List and Images** under Data Warehousing Publications. A list of Teradata CD-ROMs appears in a new window.
- 4 Select the CD image for this release.
- 5 Save the file to your local directory.

## Print Documentation and CD-ROMs

You can order printed manuals and CDs from Teradata Information Products Publishing for a nominal cost. Information on whether printed copies of documentation are available and how to order them is also accessible from [www.info.teradata.com](http://www.info.teradata.com)

When ordering printed documentation or Teradata User Documentation CDs, include the publication ID number. To locate a publication ID numbers, see “[Publication Titles and IDs](#)” on page 118.

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### To order printed documentation or CDs

- 1 Go to [www.info.teradata.com](http://www.info.teradata.com).
- 2 Under **Print & CD Publications**, click **How to Order**.
- 3 Follow the ordering instructions.

## Orange Books

Orange Books enhance product-specific manuals by describing the best practices for completing a task or solving a problem using the tools and features of one or more products. The content is more technical than that found in white papers.

Orange Books are available to Teradata customers with a service contract, Teradata Professional Services associates, and Teradata Customer Service associates. Teradata @ Your Service membership is also required.

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### To access Orange Books

- 1 Go to [Teradata.com](http://Teradata.com).
- 2 From the **Support Services** menu, click **Teradata @ Your Service**.
- 3 Follow the instructions to log on or to register.
- 4 From the Teradata @ Your Service home page, type *Orange Books* in the **Search Knowledge Repositories** box, and then click **Search**.

## Publication Titles and IDs

The following documents are available in support of Teradata Tools and Utilities Release 13.0. In the table, *mmyx* represents the publication date of a manual, where *mm* is the month, *y* is the last digit of the year, and *x* is an internal publication code.

Table 62: Teradata Tools and Utilities 13.0 Documentation

Publication Type	Publication Title	Publication ID
<b>General Reference</b>		
	<i>Messages</i>	B035-1096-088A
	<i>Teradata Tools and Utilities Release Definition</i>	B035-2029-088C
	<i>Teradata Tools and Utilities Command Summary</i>	B035-2401-088A
	<i>Teradata User Documentation</i> Teradata Database 12.0 Teradata Tools and Utilities 13.0	B035-1909-088D
<b>Installation Guides</b>		
	<i>Teradata Tools and Utilities Installation Guide for IBM z/OS</i>	B035-2458-088A
	<i>Teradata Tools and Utilities Installation Guide for IBM z/VM</i>	B035-2422-088A
	<i>Teradata Tools and Utilities Installation Guide for Microsoft Windows</i>	B035-2407-088A
	<i>Teradata Tools and Utilities Installation Guide for UNIX and Linux</i>	B035-2459-088A
<b>Connectivity and Interface Tools</b>		
	<i>Basic Teradata Query Reference</i>	B035-2414-088A
	<i>IBM CICS Interface for Teradata Reference</i>	B035-2448-088A
	<i>IBM IMS/DC Interface for Teradata Reference</i>	B035-2447-088A
	<i>Interactive Teradata Query Reference</i>	B035-2451-088A
	<i>Interactive Teradata Query User Guide</i>	B035-2452-088A
	<i>ODBC Driver for Teradata User Guide</i>	B035-2509-088A
	<i>OLE DB Provider for Teradata Installation and User Guide</i>	B035-2498-088A
	<i>Teradata Call-Level Interface Version 2 Reference for Channel-Attached Systems</i>	B035-2417-088A
	<i>Teradata Call-Level Interface Version 2 Reference for Network-Attached Systems</i>	B035-2418-088A
	<i>Teradata Director Program Reference</i>	B035-2416-088A
	<i>Teradata JDBC Driver User Guide</i>	B035-2403-088A
	<i>Teradata Preprocessor2 for Embedded SQL Programmer Guide</i>	B035-2446-088A

Table 62: Teradata Tools and Utilities 13.0 Documentation (continued)

Publication Type	Publication Title	Publication ID
	<i>Teradata SQL Assistant for Microsoft Windows User Guide</i>	B035-2430-088A
	<i>Teradata SQL Assistant/Web Edition User Guide</i>	B035-2505-088A
	<i>Teradata Transparency Series/ Application Programming Interface User Guide</i>	B035-2419-088A
<b>Load and Unload Utilities</b>		
	<i>Teradata FastExport Reference</i>	B035-2410-088A
	<i>Teradata FastLoad Reference</i>	B035-2411-088A
	<i>Teradata MultiLoad Reference</i>	B035-2409-088A
	<i>Teradata Parallel Transporter Operator Programmer Guide</i>	B035-2435-088A
	<i>Teradata Parallel Transporter Reference</i>	B035-2436-088A
	<i>Teradata Parallel Transporter User Guide</i>	B035-2445-088A
	<i>Teradata Parallel Transporter Application Programming Interface Programmer Guide</i>	B035-2516-088A
	<i>Teradata Tools and Utilities Access Module Programmer Guide</i>	B035-2424-088A
	<i>Teradata Tools and Utilities Access Module Reference</i>	B035-2425-088A
	<i>Teradata Parallel Data Pump Reference</i>	B035-3021-088A
<b>Database and Query Management Tools</b>		
	<i>Teradata Administrator User Guide</i>	B035-2502-088A
	<i>Teradata Dynamic Workload Manager User Guide</i>	B035-2513-088A
	<i>Teradata Index Wizard User Guide</i>	B035-2506-088A
	<i>Teradata Manager Installation Guide</i>	B035-2402-088A
	<i>Teradata Manager User Guide</i>	B035-2428-088A
	<i>Teradata Query Director User Guide</i>	B035-2510-088A
	<i>Teradata Query Scheduler Administrator Guide</i>	B035-2511-088A
	<i>Teradata Query Scheduler User Guide</i>	B035-2512-088A
	<i>Teradata Statistics Wizard User Guide</i>	B035-2503-088A
	<i>Teradata System Emulation Tool User Guide</i>	B035-2492-088A
	<i>Teradata Visual Explain User Guide</i>	B035-2504-088A
	<i>Teradata Workload Analyzer User Guide</i>	B035-2514-088A
<b>Storage Management Tools</b>		

Table 62: Teradata Tools and Utilities 13.0 Documentation (continued)

Publication Type	Publication Title	Publication ID
	<i>Teradata Archive/Recovery Utility Reference</i>	B035-2412-088A
<b>Teradata MDS</b>		
	<i>Teradata Meta Data Services Installation and Administration Guide</i>	B035-3118-088A
	<i>Teradata Meta Data Services Programmer Guide</i>	B035-3047-088A



## CHAPTER 4

# Customer Assistance

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To help you make the most of your Teradata system, trained professionals are available to assist you. There are a number of training and support centers you can contact to learn more about Teradata applications or to get help with your Teradata system. Assistance is also available at [www.Teradata.com/t/At-Your-Service](http://www.Teradata.com/t/At-Your-Service).

## Customer Education

Teradata Customer Education delivers training for your global workforce—from scheduled public courses and customized on-site training to the latest E-learning solutions. For information on the latest classes, schedules, and the Teradata Certification Program, go to the Teradata Customer Education web site at: [www.TeradataEducationNetwork.com](http://www.TeradataEducationNetwork.com).

Customers and Teradata associates can enroll in classes online at [www.TeradataEducationNetwork.com](http://www.TeradataEducationNetwork.com), or by contacting the representative for your region. To find the representative for your region, use the **Contact Us** link at the bottom of the Teradata Education Network page.

## Customer Support

Customer support is available around-the-clock, 7 days a week. Trained professionals at a Remote Services Center (RSC) are available to assist you. To learn more about Teradata Customer Services, go to Teradata @ Your Service at [www.Teradata.com/t/At-Your-Service](http://www.Teradata.com/t/At-Your-Service).

If you purchased an ESS (Enterprise System Support) support contract, a customized support plan was created for you. Please refer to your support plan for contact information. In addition, a unique PIN (Personal Identification Number) was given to your site. If you are an ESS customer, you must contact the regional RSC to request support, and you must use your PIN.

**Note:** PINs are not published; if you misplace your PIN, contact your account representative.

