

Toad® Data Point 5.4 Installation Guide



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Installation

System Requirements

Review the following client and database server requirements for Toad® Data Point.

Client Requirements

Before installing Toad, ensure that your client system meets the following minimum hardware and software requirements:

Requirement	Details
Platform	2 GHz processor (recommended minimum)
Memory	8 GB of RAM minimum, 16 GB recommended
	Additional RAM Requirements: Using Local Storage, Cross-Connection Query, Business Intelligence connections, or NoSQL connections can require an additional 500 MB of RAM. These features start processes (mysqld.exe, hubproxy.exe) which persist for the Toad session.
	Note: The memory required may vary based on the following:
	 Applications that are running on your system when using Toad
	Size and complexity of the database
	Amount of database activity
	Number of concurrent users accessing the database
Hard Disk	800 MB to install Toad
Space	450 MB to run Toad
	Additional Recommendations: For retrieving large queries, allow 10 GB free disk space (or more, depending on the size of the data being retrieved). After retrieving 2500 rows, Toad saves data in a TMP (.tmp) file in the user's Temp directory. These TMP files are deleted when Toad closes.
Operating	Windows Server® 2012
System	Windows Server® 2012 R2
	Windows Server® 2016
	Windows Server® 2019
	Windows® 8.1 (32-bit or 64-bit)
	Windows® 10

Requirement	Details	
.NET	Microsoft® .NET Framework 4.7.1	
Framework	Teradata® .NET Data Provider	
	You must install the Teradata .NET Data Provider (13.10 or later) to use a Teradata native connection in Toad.	
	Note: To use a Teradata connection in a cross-connection query, you must also install a Teradata (13.10 or later) ODBC driver.	
Additional Software	Visual C++ Redistributable for Visual Studio 2019. This software is required. It is included in installation using the .exe installer. If using the .msi installer, ensure that this software is installed prior to installation. See Visual C++ Redistributable for VS 2019 .	
	For 64-bit Toad Data Point, both 32-bit and 64-bit Visual C++ packages are required.	
Database Client	DB2® Client	
	Toad no longer installs a DB2 Client along with the Toad application. When connecting to a DB2 database, ensure that you have a DB2 Client or IBM Data Server Driver installed. Toad supports DB2 Client versions 9.7.6 through 11.1.	
	Oracle® Client	
	Toad can connect to Oracle using Direct Connect (no Oracle Client required) or using an Oracle Client or Oracle Instant Client. However, if you want to use LDAP, you must install an Oracle Client. Toad supports 9i or later Oracle Clients and Oracle Instant Clients.	
	Notes:	
	You cannot use Oracle Direct Connection in a cross-connection query.	
	 To use an Oracle connection in a cross-connection query, you must install an Oracle Client (full install) or you must install the Oracle Instant Client plus the Oracle ODBC driver. 	
Additional	Web Browser	
Requirements	Microsoft® Internet Explorer® 11 or later	
	Screen	
	Recommended maximum DPI settings for Toad are 125%. It is possible to use Toad up to 200% but some dialog windows will not be completely usable anymore.	
	Maximum tested resolution for Toad is 3800 x 2160 px.	

Server Requirements

Before installing Toad, ensure that your server meets the following minimum hardware and software requirements:

Requirement	Details
Native Database Server	Toad supports the following databases: Oracle 10g R2, 11g, 11g R2, 12c, 12c R2, 18c Toad has been tested on Oracle Exadata 2.0 running Oracle database 11g R2. SQL Server 2012 and SQL Server 2012 Express SQL Server 2014 Enterprise and SQL Server 2014 Express
	SQL Server 2016 SQL Server 2017 SQL Server 2019 Notes:
	 SQL Server Compact Edition is not supported. Storage Management is not available on SQL Server Express.
	IBM DB2 for LUW 9.7, 10.1, 10.5, 10.5.0.5, 11.1, 11.5 IBM DB2 for z/OS 11, 12 Note: Toad may support IBM DB2 Express and SWE in addition to listed above servers
	but note that no testing was performed on it. Note: Windows 8, 10 and Windows Server 2012 require the following Fix Pack in order to ensure registration of DLLs in Global Assembly Cache:
IBM DB2 LUW 10.5 Fix Pack 4 IBM DB2 LUW 10.1 Fix Pack 4 IBM DB2 LUW 9.7 Fix Pack 10 MySQL 5.0, 5.1, 5.5, 5.6, 5.7 MariaDB 5.5.5, 10.2.8, 10.3.2 (using MySQL provider) SAP ASE 15.5, 15.7, 16 SP03 SAP IQ 15, 16 SAP SQL Anywhere 16 SAP HANA SPS 08, SPS 09, SPS 10, SPS 11, SPS 12, SAP HANA 2.0, SAP HASPS 02	IBM DB2 LUW 10.1 Fix Pack 4 IBM DB2 LUW 9.7 Fix Pack 10
	MariaDB 5.5.5, 10.2.8, 10.3.2 (using MySQL provider) SAP ASE 15.5, 15.7, 16 SP03
	SAP HANA SPS 08, SPS 09, SPS 10, SPS 11, SPS 12, SAP HANA 2.0, SAP HANA 2.0
	Teradata 12.0, 13.0, 13.10, 14, 15, 16 Access® 2007, 2010, 2013, 2016
Microsoft Access Database Engine is required and might not be included in the installation. The engine must match the architecture (bitness) of Toad. Excel® 2003, 2007, 2010, 2013, 2016	Note: To use Access 2016 64-bit to connect to an Access database in Toad, the Microsoft Access Database Engine is required and might not be included in the Access installation. The engine must match the architecture (bitness) of Toad.
	Note: To use Excel 2016 64-bit to connect to an Excel or .csv file in Toad, the Microsoft Access Database Engine is required and might not be included in the Excel
ODBC Database Server	Toad Data Point allows you to create a connection to a database that supports an ODBC 3.0 or later driver. ODBC connectivity provides basic querying capability, but may not be as full-featured as a native connection in Toad. Toad has been tested on the following databases, using an ODBC connection:
	• DB2 for i5/OS V5R4 and IBM i 6.1, 7.3
	EDB Postgres Advanced Server 10

Requirement	Details	
	Greenplum® Database	
	Informix Dynamic 10.00, 11.0 (limited testing)	
	Ingres Community Edition 2006 R2 on Windows 32-bit (limited testing)	
	Netezza Data Warehouse Appliance 4.6.6, 6.0, 7.0, 7.2.1	
	• PostgreSQL® 9.5, 9.6.3, 10	
	• Vertica 4.1, 5.0, 5.1 (with 4.0, 4.1 ODBC driver), 6.0 (with 6.0 ODBC driver), 6.1, 7.0, 8.1, 9.0	
	Note: For a list of databases that are not supported, see Known Issues in the Release Notes.	
Cloud Database	Oracle databases running on Amazon EC2	
Service	SQL Azure and Azure SQL Data Warehouse	
	Note: To be able to utilize a majority of Toad functionality, please grant VIEW DEFINITION on the SQL Azure databases you want to work with.	
	SQL Server databases running on Amazon EC2	
	Toad can manage Amazon RDS and any other cloud or service offering compatible with MySQL.	
Business Intelligence	Toad has been tested with, and supports, the following Business Intelligence platforms: SAP Business Objects XI 3.1, 4.1	
Connections	Oracle Business Intelligence Enterprise Edition 12.2	
	Salesforce.com®	
	Microsoft SQL Server Analysis Services 2016	
	Google Analytics™	
	OData version 4	
	SharePoint® Server 2013	
NoSQL	Toad has been tested with, and supports, the following NoSQL platforms:	
Connections	Azure Table Services	
	Apache Cassandra™ 3.11.0	
	Amazon DynamoDB	
	Apache HBASE™ 1.2.6	
	Apache Hive™ 2.1.0	
	Cloudera Impala 2.9.0, 3.2.0 with CDH 6.3.2. Toad Data Point has been certified by Cloudera.	
	MongoDB™ 3.4.6, 3.4.9, 4.0	
Toad Intelligence Central	This release of Toad Data Point has been tested with Toad Intelligence Central 4.3 and 5.0.	
	Note: Some publishing features in this release of Toad might not be supported in earlier versions of Intelligence Central. For more information about compatibility between Intelligence Central versions and Toad Data Point 5.4 features, see the New Features section of the Toad Data Point Release Notes.	
VM and Cloud Platform Environments	In general, the databases and data sources listed in this table are also supported when installed on a virtual machine (VM) or cloud platform. See the database or data source documentation for more specific information.	

Requirement	Details	
Additional Testing	Data Set Size	
	The following Toad Data Point functionality has been tested with data sets of up to 5 million rows: SQL Editor, Data Compare, Import Wizard, Export Wizard, Publishing Data to Intelligence Central.	
	For the following Toad Data Point modules, working with very large data sets can impact performance. For best results in these areas, work with data sets of less than 1 million rows: Dimensional Viewer, Pivot Grid, manually sorting a result grid, performing more than one Data Compare at a time (such as running multiple Data Compare Automation scripts simultaneously).	
	Notes:	
	 Performance can vary based on available disk space and memory, CPU speed, and the bitness of Toad, as well as the type and number of columns. 	
	 It is recommended to use Toad Data Point 64-bit when working with large data sets. 	
	Import and export functionality was tested with .csv files.	
	Performance testing was conducted using Toad Data Point 64-bit.	

Virtualization Support

Requirement	Details	
Application Virtualization	When deploying Toad in a virtualization environment, for best results ensure the system accurately reflects the applicable client hardware and software requirements listed in this document.	
	Toad has been developed using Microsoft guidelines (see Remote Desktop Services programming guidelines) and can be deployed and operated in virtualization environments such as Citrix XenApp, Microsoft App-V, and VirtualBox.	
	See "Install Toad on Citrix® Systems" on page 22 for more information.	
Server Virtualization	Toad has been tested with the following:	
	Oracle VM 3.1 running on Red Hat Enterprise Linux 64-bit with Oracle 11gR2	
	 Oracle VM 2.2 running on Windows 2008 32-bit with Oracle 11gR2 	

User Requirements

User Requirements to Install Toad

Only Windows Administrators and Power Users can install Toad.

Note: The following exceptions exist for Power Users:

 (DB2 only) A Power User can install Toad as long as this user belongs to the DB2ADMNS or DBUSERS group.

If an Administrator installs Toad, the Administrator can share the Toad shortcut icon on the desktop and menu items with any user—a Power User, Restricted User—on the computer.

If a Power User installs Toad, a Restricted User cannot do the following:

- · Associate file extensions.
- View the Toad shortcut icon on the desktop or the Toad menu options in the Windows Start menu. As a workaround, Restricted Users can create a shortcut to Toad from the install directory and place the shortcut on their desktop.

User Requirements and Restrictions for Running Toad

The following describes the requirements and restrictions for users who launch and run Toad:

- (DB2 only) A Windows Power User or Restricted User must belong to the DB2ADMNS or DB2USERS group. To add the user to one of these groups, select Start | Control Panel | Administrative Tools | Computer Management | System Tools | Local Users and Groups | Groups | DB2ADMNS or DB2USERS.
- (DB2 only) A Windows Power User or Restricted User does not have the authority to add or remove DB2 catalog entries using the Toad Client Configuration wizard. However, these users can use the Import Profile function in the Toad Client Configuration wizard to import catalog entries to Toad.
- (DB2 only) To take full advantage of Toad for DB2 LUW functionality, the user ID specified in the Toad connection profile for each DB2 for LUW database connection requires the authorizations listed in the following document:

ToadDB2LUWAuthorizations.xls

(DB2 only) As a minimum requirement to manage a DB2 for z/OS subsystem in Toad, the user ID defined
in the Toad connection profile for the subsystem must either have SYSADM privileges or SELECT
privileges on the DB2 catalog tables. For a complete list of authorizations (and corresponding GRANT
statements) a user requires to take full advantage of Toad for DB2 z/OS functionality, refer to the
following document:

ToadDB2zOSAuthorizations.doc

• To create or modify the QuestSoftware. ToadSecurity table to enable Toad Security, the user who maintains this table must have privileges to create, insert, update, and delete it. All other users need only the ability to read the QuestSoftware. ToadSecurity table to use Toad Security features.

Install Toad

Beginning with release 3.2, Toad® Data Point is available in two editions: Base and Professional.

Beginning with release 4.1, Toad Data Point is available in a 64-bit version, as well as a 32-bit version.

To install Toad

1. Run the ToadInstaller.exe.

For individual installation, the .exe file is recommended. The Microsoft Visual C++ 2015 Redistributable is required by Toad. This software is included in the installation when using the .exe file, but not when using the .msi file. Please ensure <u>Visual C++ Redistributable for VS 2015</u> is installed prior to installation using the .msi file. See MSI Prerequisites for more information.

For help with installation errors, see Troubleshoot Installation Errors.

2. If you are running the combined installer in a 64-bit environment, on the Choose Installer page, select the version to install: 32-bit or 64-bit.

Note: Install 32-bit Toad if you intend to use a 32-bit ODBC driver.

3. Select a destination folder and other options. Review the following for additional information.

Install Wizard Page	Description
Destination Folder	Select a destination folder or use the default.
Install Type	Typical Install—Select to install Toad normally.
	Read-only Install —Select to install Toad as a read-only application. See "Read-Only Installation" on page 15 for more information.
Additional Properties	Allow saving passwords —(default) Select to allow Toad to save passwords for data source connections.
	Prohibit saving passwords —Select to prohibit Toad from saving connection passwords.
	Note: If this option is selected, the Automation module will be disabled in this installation of Toad.

Side-by-side Installation

Toad Data Point 4.1 (or later) supports side-by-side installation of versions with different architecture (bitness) as long as they are also different releases (e.g., 4.0 and 4.1) or different editions (e.g., Commercial and Beta).

For example, you could install the following side-by-side:

- A 32-bit 4.1 Commercial edition and a 64-bit 4.1 Beta edition
- A 32-bit 4.0 Commercial edition and a 64-bit 4.1 Commercial edition

Troubleshoot Installation Errors

Error Message: The Microsoft Visual C++ 2015 Redistributable is not installed correctly

You might encounter this error if the prerequisites for the Microsoft Visual C++ 2015 Redistributable are not installed prior to installing Toad. If you encounter this error, do the following:

- 1. Uninstall the Microsoft Visual C++ 2015 Redistributable using the Control Panel.
- 2. Install the missing software. See <u>Universal C Runtime Update Prerequisites</u> or use one of the following links:
 - For Windows 7 or Windows Server 2008 R2, install Service Pack 1: https://support.microsoft.com/en-us/kb/976932.
 - For Windows RT 8.1, Windows 8.1, or Windows Server 2012 R2, install the April 2014 update: https://support.microsoft.com/en-us/kb/2919355.
 - For Windows Server 2008, install Service Pack 2: https://support.microsoft.com/en-us/kb/948465.
- 3. Run the ToadInstaller.exe again.

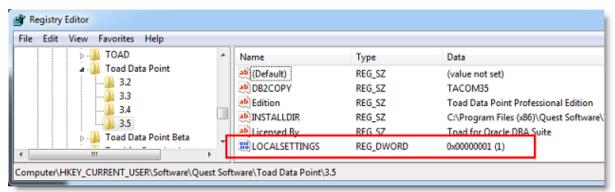
Specify Application Data Directory Location

Toad Data Point 5.4 stores settings files in the user's Application Data directory. The default location cannot be modified from within the application. Toad provides two methods to change the default location: by using a Registry setting or by using a command switch in a Toad shortcut.

Use the Registry setting method to change the application data directory from Roaming to Local. Use the command switch method to change the location to any new path.

To change Toad Application Data directory location from Roaming to Local

In the Registry under Toad Data Point (Computer\HKEY_CURRENT_USER\Software\Quest Software\Toad Data Point\5.4), add LOCALSETTINGS with a value of 1.



See the following table for default (Roaming) and resulting (Local) directory path.

Caution: All current Toad settings will be lost after applying this Registry setting unless you manually copy the settings files from the default location (Roaming directory) to the new location (Local directory). Copy the settings files BEFORE you add the Registry setting and BEFORE opening Toad.

Operating System	Default Location	New Location when LOCALSETTINGS = 1
Windows Server 2008 Windows 7	C:\Users\username\ AppData\Roaming\Quest	C:\Users\username\ AppData\Local\Quest Software\ Toad
Windows 8 Windows 10	Software\Toad Data Point 5.4	Data Point 5.4

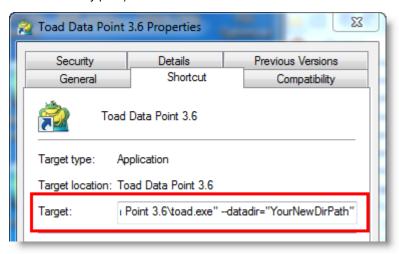
To change Toad Application Data directory location using a command-line switch

You can override the default Application Data directory by running Toad with the command switch:

Toad.exe --datadir="YourNewDirPath"

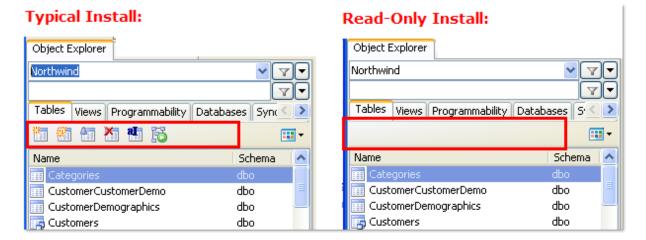
To instruct Toad to always use the new directory path, add the command switch and the new directory path to a Toad desktop shortcut. Then use the desktop shortcut when opening Toad.

- 1. To add the command switch, right-click the Toad shortcut and select Properties.
- 2. Enter the command switch and add the directory path in quotes (replace "YourNewDirPath" with your directory path).



Read-Only Installation

During installation, you can select an option to install Toad as a read-only application. This lets you query data and view objects using Toad, but all actions that can impact the database (Create, Alter, Drop, Insert, Update, etc.) are disabled or hidden. This ensures that you can use Toad without worrying about committing a change to a sensitive production instance. The following image shows an example of the differences between a typical and a read-only installation:



To install a read-only version of Toad Data Point

1. During installation, select the Read-only option.



To change an existing installation to read-only

1. Reinstall Toad and select **Read-only Install** on the Install Type page.

Additional Considerations and Limitations of Read-Only Install

Review the following additional considerations/limitations before using a Toad read-only installation.

Consideration/Limitation	
Additional limitations for IBM DB2 z/OS connections	When using an IBM DB2 z/OS connection in a read-only install of Toad, please note the following additional limitations:
	 The Dependencies, Grants, and Script tabs in the Database Explorer (Viewer) are not available.
	The Clone Tables node/tab in the Object Explorer is not

Consideration/Limitation	
	available.
	 The user does not have SQL access to SYS<xxx>AUTH tables.</xxx>

Install Toad Silently

Silent installation provides a convenient method for deploying Toad to multiple machines. With some customization, you can also deploy the license key and settings at the same time.

Determine Which Installer to Use

Before performing a silent installation, review the following to determine which installer to use:

Installer	Advantages	Disadvantages
Executable file (.exe)	Silent installation using the .exe file has the following advantages:	Silent installation using the .exe file has the following disadvantages:
	 Verifies whether the prerequisite software is installed, and if not, redirects you to the download location. 	 Cannot deploy custom Toad settings files or license keys. Installer automatically exits if the prerequisite software is not installed.
Microsoft Installer file (.msi)	Supports deployment of Toad settings files and license keys.	Silent installation using the .msi file has the following disadvantages: Requires manual verification and download of any prerequisite software. Requires a manual uninstall of the
		previous version of Toad using Add/Remove Programs.

Silent Installation Prerequisites

Before you can perform a silent installation, the following software must be installed on every computer where you are installing Toad:

- Microsoft .NET Framework 4.7.1
- (Installation using .msi Microsoft installer only) Visual C++ Redistributable for Visual Studio 2015. See
 <u>Visual C++ Redistributable for VS 2015</u> for downloads. See <u>KB2999226 Update for Universal C</u>
 Runtime in Windows for additional information.

Silent Installation Using the Executable

Use the executable file to perform a silent install to the default directory (or to a different directory) and to specify options such as logging installation messages.

To perform a silent install using the executable file

- 1. At a Windows command prompt, switch to the drive or directory where the executable for Toad is located. (This file can be downloaded from the Quest Software Web site or can be found on the Toad installation CD-ROM.)
- 2. For a standard installation with all features enabled, enter the following command:

```
"ToadInstaller.exe" /S
```

For a read-only installation with create, alter, and drop functionality disabled, enter the following command:

```
"ToadInstaller.exe" /S READONLY=TRUE
```

You can customize MSIEXEC command-line options and overrides for your installation similar to the following command:

```
"ToadInstaller.exe" /S /Lx "C:\temp\installLog.txt" INSTALLDIR="Drive:\your_install_path" USERNAME="some_user" COMPANYNAME="your_company" ALLUSERS=1
```

Use the following descriptions to customize the command-line options and overrides for your installation.

Command-Line Options

The following MSIEXEC command-line options are used in this example:

Option	Description
/L "C:\temp\installLog.txt"	(Optional) Write installation messages to the specified log file.
	Substitute "C:\temp\installLog.txt" in the example with the fully qualified name of the log file. Enclose this value in double quotations. The installation process creates this file if it does not exist. Otherwise, the existing file is overwritten.
	You can add additional parameters to the logging option to indicate what type of information to log.
	 /Lx—Adds extra debugging information to the log (used in previous example)
	/Lv—Specifies verbose output
	 /L*—Log all information, except that specified by x and v
	 /L*v—Log all information, including v (verbose output)
	 /L*x—Log all information, including x (extra debugging info)
	 /L*vx—Log all information, including that specified by v and x
	See the log section at http://msdn2.microsoft.com/en-us/library/aa367988.aspx for more information about additional logging parameters.
/32BIT	Setup installs a 32-bit version of Toad.
	This parameter applies only if written right after the path to the executable, e.g.:
	C:\Users\JDoe\Downloads\ToadDataPoint_pro_5.0.2.20.exe" /32BIT /S /Lx "C:\temp\installLog.txt" INSTALLDIR="C:\Program Files\Quest Software\Toad"
/64BIT	Setup installs a 64-bit version of Toad. This parameter applies only if written right after the path to the executable, e.g.:

Option	Description
	C:\Users\JDoe\Downloads\ToadDataPoint_pro_5.0.2.20.exe" /64BIT /S /Lx "C:\temp\installLog.txt" INSTALLDIR="C:\Program Files\Quest Software\Toad"
License="full_path"	Specify the full path to a license file, e.g. License="C:\ProgramData\Quest Software\Toad Data Point". Toad Data Point to use Toad with the desired license.

Toad Default Installation Option Overrides

You can specify the following values to override Toad's default installation options. Enclose each value in double quotations.

Option	Description
INSTALLDIR	(Optional) Specify the absolute path for the directory in which you want to install Toad. If you do not include this path, the installation program defaults to:
	C:\Program Files (x86)\Quest Software\Toad Data Point5.4.
ALLUSERS	(Optional) Specify one of the following:
	 For a per-machine installation, specify 1. This value allows any user to use the Toad shortcut on the desktop after the installation completes.
	 For a per-user installation, enter the empty string value ("") This value allows only the user specified for USERNAME (and the user that installed Toad) to see the Toad shortcut on the target desktop. If USERNAME is omitted, only the user that installed Toad sees the shortcut.
	Note: If you do not specify this property, the installation program defaults to a per-user installation.
USERNAME	(Optional) Specify the user that intends to use Toad on the target computer.
	Notes:
	 If ALLUSERS is omitted or defined with the empty string value (""), only the user specified here (and the user that installed Toad) can see the Toad shortcut on the desktop after the installation completes.
	 If ALLUSERS is omitted or defined with the empty string value ("") and you omit the USERNAME option, only the user that installed Toad sees the Toad shortcut on the desktop.
	 If ALLUSERS is 1, the USERNAME value is ignored during installation.
COMPANYNAME	(Optional) Specify the name of the company that owns this installation.
ALLOWPASSWORDS=FALSE	(Optional) Set in order to prohibit users from saving their passwords in Toad.
OPTIONSTEMPLATE	(Optional) Enter a full path to the Options Template that you generated in Tools Options General .

Notes:

- All default installation option overrides are case-sensitive.
- Enclose all values (except for the ALLUSERS value) in double quotations.

Silent Installation Using the Microsoft Installer

Note: (MSI installs on Windows 7) If you are using MSI to install Toad on Windows 7 with UAC enabled, you can install a file that adds a "Run as administrator" option when right-clicking the MSI file: http://www.symantec.com/connect/downloads/msi-run-administrator-context-menu-vista.

Note: The installer does not verify that system requirements have been met before installing. If you do not want to manually verify system requirements, you should use the .exe file for the silent install.

MSI Prerequisites

Visual C++ Redistributable for Visual Studio 2015 is required by Toad, however it is not installed when you use the Microsoft (.msi) installer. Ensure that this software is installed prior to performing an install using the .msi installer. For downloads, see <u>Visual C++ Redistributable for VS 2015</u>. For related information, see <u>KB2999226-Update for Universal C Runtime in Windows</u>.

If your operating system is 32-bit, install vc_redist.x86.exe. If your operating system is 64-bit, install both vc_redist.x86.exe and vc_redist.x64.exe.

This software is required to enable some features in Toad Data Point, such as Local Storage. This software is included in installation when using the executable (.exe) installer.

Perform Silent Installation Using MSI

You can deploy the license key, custom settings, and connections files when installing using the .msi installer. See "Create Transform (MST) Files" on page 21 for more information.

To perform a silent install using msi

- 1. At a Windows command prompt, switch to the drive or directory where the msi installer for Toad is located.
- 2. For a standard installation with all features enabled, enter the following command:

```
msiexec /i "ToadInstaller.msi" /q
```

For a read-only installation with create, alter, and drop functionality disabled, enter the following

```
msiexec /i "ToadInstaller.msi" /q READONLY=TRUE
```

You can customize command-line options and overrides for your installation similar to the following:

```
msiexec /i "ToadInstaller.msi" INSTALLDIR= "Drive:\your_install_path" /q
USERNAME="someone" COMPANYNAME="your_company" ALLUSERS=1
```

Command-Line Options

The following MSIEXEC command-line options are used in this example:

Option	Description
/i	Run the installation.
/q	Specify the user interface (UI) that displays during installation. You can append other options, such as <i>n</i> to hide the UI or <i>b</i> to hide the Cancel button during the installation.

Toad Default Installation Option Overrides

You can specify the following values to override Toad's default installation options. Enclose each value in double quotations.

Option	Description
INSTALLDIR	(Optional) Specify the absolute path for the directory in which you want to install Toad. If you do not include this path, the installation program defaults to:
	C:\Program Files (x86)\Quest Software\Toad Data Point5.4.
ALLUSERS	(Optional) Specify one of the following:
	 For a per-machine installation, specify 1. This value allows any user to use the Toad shortcut on the desktop after the installation completes.
	 For a per-user installation, enter the empty string value ("") This value allows only the user specified for USERNAME (and the user that installed Toad) to see the Toad shortcut on the target desktop. If USERNAME is omitted, only the user that installed Toad sees the shortcut.
	Note: If you do not specify this property, the installation program defaults to a per-user installation.
USERNAME	(Optional) Specify the user that intends to use Toad on the target computer.
	Notes:
	 If ALLUSERS is omitted or defined with the empty string value (""), only the user specified here (and the user that installed Toad) can see the Toad shortcut on the desktop after the installation completes.
	 If ALLUSERS is omitted or defined with the empty string value ("") and you omit the USERNAME option, only the user that installed Toad sees the Toad shortcut on the desktop.
	 If ALLUSERS is 1, the USERNAME value is ignored during installation.
COMPANYNAME	(Optional) Specify the name of the company that owns this installation.
ALLOWPASSWORDS=FALSE	(Optional) Set in order to prohibit users from saving their passwords in Toad.
OPTIONSTEMPLATE	(Optional) Enter a full path to the Options Template that you generated in Tools Options General .

Notes:

- All default installation option overrides are case-sensitive.
- Enclose all values (except for the ALLUSERS value) in double quotations.

Additional Options

Option	Description
TRANSFORMS	(Optional) Specify the name and location of the .mst file.
	TRANSFORMS="filename.mst"
	See Create Transform (MST) Files for more information.

Create Transform (MST) Files

You can create a Microsoft transform (.mst) file that deploys the license key, custom settings, and connections for users when performing a silent install using the .msi file.

If you do not already have the license key, settings, and connections files that you want to deploy in a silent install, you can create them in Toad.

To create license, settings, and connections files in Toad

- 1. License file. In Notepad, do the following:
 - a. Enter the license key in the first line.
 - b. Enter the site message in the second line.
 - c. Save the file with license.key as the file name in the Toad install directory. Make sure the file extension is .key not .txt.
- 2. Start Toad. The application should open without prompting you to enter a license key.
- 3. **Settings file.** Select **Tools | Configuration Wizard** from the Toad menu and complete the Configuration wizard. This wizard creates an initial settings file (Settings.xml).
- 4. ModuleSettings files. Select Tools | Options from the menu in Toad to open the Options window.
 - Select each page in the window and set any options you want to deploy. These options create a module settings folder and files.
- Connection file. Select View | Connection Manager from the menu in Toad to open the Connection Manager.
 - Create any connections you want to deploy.
- 6. Exit Toad. Upon exiting, a Connections file is created.
- 7. Locate the files you created. See the following table for file locations.

File	Location
Settings.xml	C:\Users\ username\AppData\Roaming\Quest Software\Toad Data Point 5.4.
ModuleSettings folder and files	C:\Users\username\AppData\Roaming\Quest Software\Toad Data Point 5.4\ModuleSettings.
Connections.xml	C:\Users\username\AppData\Roaming\Quest Software\Toad Data Point 5.4.

To create a Transform (.mst) file

- 1. Select the tool of your choice to create a Transform (.mst) file using the *ToadInstaller.msi*.
- 2. Package the files created in the previous procedure. When creating the Transform file, select the Toad Installation directory as the Destination.

For example, C:\Program Files\Quest Software\product> <version>

When the user starts Toad for the first time, if these files are located in the Installation directory then the files are copied to the appropriate location.

- 3. Generate and save the Transform file.
- 4. Perform a silent install. See "Perform Silent Installation Using MSI" on page 19 for more information.

Install Toad on Citrix[®] Systems

Toad must be installed on the Citrix server by the Citrix administrator. Users then connect to this instance through their Citrix login.

To install Toad on a Citrix system

- 1. Connect to the Citrix Environment as an administrator.
- 2. Copy Toad to the Citrix server, if needed.
- 3. Start the Toad installation process.
- 4. During installation, select the Anyone who uses this computer checkbox when prompted.
- 5. Repeat steps 2 through 4 for each server in the Citrix farm.

Note: Although you must install Toad on every server in the Citrix farm, you only need to publish Toad once.

- 6. Review the following considerations regarding licensing:
 - A license supplied by an administrator always overrides a user-supplied license in a Citrix environment.
 - If you need to provide the same Toad functionality to all users, you can enter the default license key for all users.

Upgrade Toad

To upgrade Toad

- 1. Run the ToadInstaller.exe installation program from the DVD or downloaded file.
- 2. Select Uninstall Toad and continue with install.
- 3. Complete the wizard.

If you are upgrading from a previous version of Toad, you are prompted to migrate your settings the first time you start Toad. The settings files include database connections, layout customizations, shortcut keys, and options customized in the Options pages.

To migrate the settings again, remove or rename the current version's Application Data folder and migrate the files from the previous version's Application Data folder.

Note: Local Storage databases and database objects persist between versions (releases) of Toad Data Point.

Upgrade Automation Scripts and Scheduling Tasks

If you upgrade to a newer version of Toad, Automation scripts created in a previous version must be upgraded before you can open them in the newer version. Toad prompts you to automatically upgrade a script when you attempt to open it in a newer version.

In addition, scheduled scripts are scheduled to run using the version of Toad in which they were created. After upgrading Toad, those previously-created, scheduled scripts will not execute in the newer version until you

migrate each script's scheduling task. Toad prompts you to migrate scheduling tasks when you initially launch the application after installation.

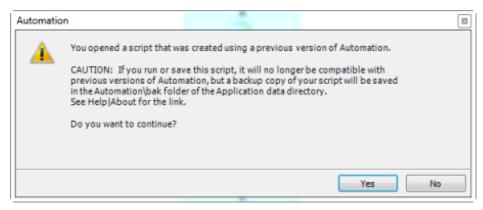
Note: If Toad was installed with the **Prohibit saving passwords** option selected, the Automation module is disabled and Toad does not prompt you to migrate scripts.

Upgrade Automation Scripts to Newer Version of Toad

An automation script is compatible with the version of Toad in which the script was created. If you want to open and/or modify a script using a newer version of Toad, you must upgrade the script. Toad automatically prompts you to upgrade the script the first time you open it in the newer version.

To upgrade an Automation script

1. Open the script in Toad. Toad prompts you to upgrade the script.



2. To upgrade the script, select Yes.

Caution: If you upgrade an automation script, it will no longer be compatible with earlier versions of Toad.

- 3. Select **No** (and do not elect to save the script), to keep the script compatible with the previous version.
- 4. If you selected Yes, Toad upgrades your script and saves a backup copy of the original script in the following location:

<application data directory>\Automation\bak\

5. If the script you upgraded is also scheduled, you **must** migrate the scheduling task, otherwise the upgraded script will fail to run.

Migrate Scheduling Tasks to Newer Version of Toad

Each scheduled Automation script uses a Windows scheduling task. The scheduling task specifies which version of Toad to use by specifying the version's application path. Toad provides you with two easy ways to migrate your scheduled scripts' scheduling tasks when you upgrade Toad. First, Toad prompts you to migrate scheduling tasks upon initial launch of the application after installation. Next, you can migrate scheduling tasks at any time using the Job Manager.

Notes:

- If you upgrade a previously-created script by opening it in a newer version of Toad, you must also migrate the scheduling task to the newer version.
- If you install the newer version of Toad side-by-side with the older version, previously-created, scheduled scripts will continue to execute using the older version, until you migrate the scheduling tasks (provided that you do not open the scripts in the newer version).

To migrate scheduling tasks upon initial launch

- 1. After upgrading Toad, and upon initial launch of the application, the Migrate Scheduled Tasks dialog opens.
- 2. Select the scheduled tasks (scheduled Automation scripts) to migrate to the new version of Toad.
- 3. Click **OK** to close the dialog.
- 4. Toad immediately prompts you for your Windows password. Enter your password to migrate the scheduled tasks.

To migrate scheduling tasks using the Job Manager

- 1. Select Tools | Administer | Job Manager.
- 2. Click on the Job Manager toolbar.
- 3. Select the scheduled tasks to migrate and click **OK**.

Note: Only currently-scheduled tasks (enabled or disabled) are listed in the Migrate Scheduled Tasks dialog.

4. Toad immediately prompts you for your Windows password. Enter your password to migrate the scheduled tasks.

Manually Edit Scheduling Tasks

On occasion you may need to modify the application path in a Windows scheduling task. You can do this by manually editing the scheduling task using the following procedure.

To manually edit a scheduling task

- 1. In the Job Manager (Tools | Administer | Job Manager), right-click a task and select Edit Task.
- 2. To change the version of Toad used to run the script, in the **Actions** tab, change the folder name in the *toad.exe* path.

Files Migrated During Upgrades

When upgrading to a new version of Toad, the following files can be migrated from the previous version's Application Data Directory (click the *Application Data Directory* link in **Help | About** to open the directory).

Caution! Migrating settings from a previous version of Toad may overwrite new settings files, implemented for the current release (for example, updated reports templates, layouts, etc).

File	Description
Action.log	Tracks your usage within Toad. If you agree to share this data, the file is automatically sent to Quest Software on a periodic basis.
Connections.xml	Contains all connections stored in the Navigation Manager or the New Connection window.
ConnectionTrace.log	Contains the SQL Output connection trace log file if you select Tools Execution Trace from the menu.
ExceptionTrace.log	Contains a log of all exceptions encountered while running Toad.
FTPConnection.log	Contains a log of exceptions encountered when attempting to connect to FTP servers.

FTPConnections.xml	Contains connections to FTP servers stored in the FTP Connections window.
Quest.PersistentCache.xml	Contains the private object annotation cache options (object notes, Lookup tables, and hidden columns). You can share these options with other Toad users in Tools Options Database Cache .
Settings.xml	Contains many of the global configuration settings.
SqlServerPlanPrefs.xml	Used to generate SQL Server execution plans.
ToadSupportBundle.zip	Contains the last support bundle you generated.
Folder	Description
Automation (temporary folder)	Used by automation when executing automation scripts.
Cache	Used to spool cache database metadata to disk if enabled. The data is in binary format and can always be recreated by fetching it from the database
Context	Contains settings that depend on the context within Toad including the following:
	Adapter—Custom data editing statements.
	Filter—Unnamed filters defined in the Object Explorer or Database Explorer.
	 Named Filter—Named filters defined in the Object Explorer or Database Explorer.
	TYPE—Tabs that display on the right when you select an object in the Object Explorer or Database Explorer.
Document Recovery	Contains backup copies of Editor, Query Builder, and Database Diagram files saved if you have enabled Document Recovery in Tools Options Environment General .
Keyboard	Contains custom keyboard shortcut layouts.
Layouts	Contains layouts for some areas in Toad, such as tool windows that automatically display in the Editor and column layouts for the Messages tab.
ModuleSettings	Contains general settings for various components in Toad, such as whether the data grid defaults to read-only, displays not null indicators, etc.
Plugins	Used by Toad plugin components.
Session	Contains desktop configurations, including toolbar customizations and tool window locations.
SQLFormatter	Contains pre-set and user created templates for formatting SQL, and the SQL statement used to preview formatting changes in the Formatting Options page.
SQLRecall	Contains the SQL statements saved by SQL Recall.
Templates	Contains the following templates:
	Code Templates—Templates used to define default values when creating new objects in the Object Explorer or Database Browser.
	Scripts—Startup scripts to run when connecting.
	Snippets—Code Snippet entries.

Uninstall Toad

If you uninstall Toad, it may not uninstall completely. When you use Toad, you create new files such as SQL scripts, data output, or temp files, etc. The following types of files are not removed when you uninstall:

- · Any new files you create
- · Any copies of files you make for backup purposes
- · Settings files

You can uninstall Toad Data Point by using the Installer or by using the Windows Add/Remove Programs (or Uninstall a program) feature. Using the Installer is the preferred way to uninstall Toad Data Point.

To uninstall Toad

- 1. Run the ToadInstaller.exe.
- 2. Select Uninstall Toad Data Point only.
- 3. Complete the wizard.

Configure Toad Layout

Toad can emulate the layout and settings of other products. Use the Configuration Wizard to select a predefined layout that matches Toad[®] for Oracle[®], SQL Navigator, or your native database tool. The Configuration Wizard also allows you to specify a skin and grid color.

If you want to group documents using Toad's built-in workflow: Understand, Query, Report, and Automate, select the *Toad for Data Analysts (Original)* option. Then open the Configuration Wizard again and select *Custom* to configure Toad behavior, such as showing/hiding windows, or opening and grouping documents according to the selected workflow group.

You can also manually rearrange windows and panes to customize the Toad workspace. See "Customize Your Toad Workspace" on page 29 for more information.

To configure Toad layout using the Configuration Wizard

- 1. Select Tools | Configuration Wizard (ALT+T+F).
- 2. To match the look of another product, select a layout option and click **Finish**.

Review the following layout options before selecting:

Layout and Settings Page	Layout options:
	 Toad Data Point 3.0—Applies shortcut keys used by Toad Data Point, opens default windows, and adds the Wizard toolbar.
	 Toad for Oracle—Applies shortcut keys used by Toad[®] for Oracle[®] and automatically opens the Project Manager, Editor, SQL Recall, and Output windows.
	 MS Query Analyzer—Applies shortcut keys used by Query Analyzer and automatically opens the Object Explorer, Code Snippets, and Editor windows.
	MS Management Studio—Applies shortcut keys used by

Management Studio and automatically opens the
Connection Manager and Editor windows.
 SQL Navigator—Applies shortcut keys used by SQL Navigator and automatically opens the Navigation Manager, Object Explorer, Editor, and Code Snippets windows.
 Toad for Data Analysts (Original)—Applies shortcut keys used by Toad for Data Analysts. This option also displays the Grouping (Toad workflow) toolbar and Wizard toolba
 Custom—Applies shortcut keys used by Toad Data Point This option allows you to select skin and grid styles, as well as Database Explorer display options.
Use this option to customize the <i>Toad for Data Analysts</i> layout if you have previously selected it.
Tip: You can set or modify individual keyboard shortcuts in Keyboard Options in Tools Options Environment Keyboard
Note: If you select a new layout, you may need to restart Toad to see the changes to the Grouping and Wizard toolbars.

3. To customize your layout, select **Custom** and click **Next**. Then specify options on each page of the wizard. Review the following for additional information:

Page	Options
Look and Feel	Select a skin and grid style.
	 Skin—Applies the skin style you select to document windows, tool windows, and modal dialogs.
	 Grid style—Applies the grid style you select to the data grid only.
	A preview of the selected style is automatically displayed in the wizard and in the grid.
	Tip: You can change the skin and grid style later in Tools Options Environment Interface .
Database Explorer Style	Specify how objects display in the Object Explorer window.
	Tip: Click in the Object Explorer at any time to switch to a different view style.
Quick Guide	Displays a Quick Start Guide that lets you quickly launch frequently used features and tutorials until you are more familiar with the application.
	Tips:
	 To view this window at anytime, select View Quick Guide from the menu.
	 To hide this window when starting Toad, select the Do not show on start up checkbox at the bottom of the Quick Guide window.
Group Documents	Applies to the Toad for Data Analysts (Original) layout. Select this layout option prior to customizing.
	Specify one or more of the following options:
	Use document groups—Associates each open document

Page	Options
	with its respective group in the Groupings (Toad workflow) toolbar.
	 Hide windows per group—Displays only those windows that are associated with the selected group in the Groupings toolbar. For example, if the Query group is selected and a Query Builder window is open, it will be hidden when you select the Report group.
	Note: Unless the Hide windows per connection checkbox is selected, any connections that have a window open for this group display.
	 Hide windows per connection—Displays only those windows for the current connection that are associated with the selected group.
	Tip: To hide the Grouping toolbar, select Tools Customize , and then deselect the Grouping toolbar in the Toolbar tab.
Group Document Defaults	Applies to the Toad for Data Analysts (Original) layout. Select this layout option prior to customizing.
	Select the default window to open when selecting a group from the Grouping toolbar. Understand
	 Database Diagram—Easily identify relationships between tables via foreign keys.
	Database Explorer—Drill-down to details for each object
	Query
	 Query Builder—Quickly create complex queries and subqueries using a graphical interface.
	 SQL Editor—Powerful editor for writing SQL queries and scripts.
	Report
	 Excel—Automatically export query results and open ther in Excel.
	 Toad Report—Send query results to the Toad Data Report wizard.
Wizard Bar	Select to display the Wizard bar, a toolbar containing frequently- used actions for the currently open window. It displays along the bottom of the Toad window.
	Tip: To modify this option later, use the Configuration Wizard.
Connection Documents	Specify which type of new document to automatically open wher a new database connection is created.
	Tip: You can modify this option later in Tools Options Database General.
Additional Settings	Specify whether to automatically add files to the Project Manage when saving, executing, or sending the files to a report. This option can help you locate and manage your work.

4. Click **Finish** when you are done customizing.

Customize Your Toad Workspace

You can customize your Toad workspace by re-arranging windows and panes. For docked panes selected from the View menu, Toad remembers the configuration of your last open session and displays it when you re-launch the application.

To rearrange windows and panes

- 1. Open a Toad pane by selecting it from the **View** menu.
- 2. Drag the pane to a new location in the Toad workspace.
- 3. Drop the pane into the desired section of the workspace when it becomes highlighted.
- 4. To move an open window, drag it to the desired area of the workspace and drop it into a highlighted section.

Create Connections

Understand Toad Connections

Review this topic to learn about open database connections in Toad.

Toad Open Connections

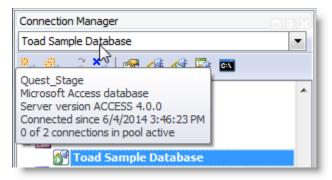
In Toad, an open connection in the Connection/Navigation Manager represents one or more actual connections to the database or data source. When you open a database connection in Toad:

- Toad creates an initial database connection for general use.
- Toad also creates a separate database connection for each Editor (the first time you execute a statement) and for each Data tab in the Database Explorer (the first time you select the tab and query data).

The connection associated with the window (or tab) remains open until you close the window. If a window has an associated connection, but a statement is not currently executing, the connection is in an inactive state.

To view information for an open connection

 To view the number of actual database connections that exist for a Toad connection, including the number of active connections, place the cursor over the connection in the Connection/Navigation Manager pane or in the connection drop-down list.



To use the Background Processes pane

- When a statement is executing, a progress bar displays in the Status bar located at the bottom of the Toad application window. Click the executing progress bar to open the Background Processes pane.
- To cancel statement execution, use the Background Processes pane.

Note: It is recommended that you cancel only your own processes, because terminating Toad activities could cause unexpected behavior.

Sharing a Connection Among Windows

You can instruct Toad to share an open connection among windows. In this way, the Editor windows and Data tabs can share the same connection when the connection is inactive.

To share a database connection among windows in Toad

- 1. Select Tools | Options | Editor | General.
- 2. Clear the checkbox for the Use individual connection for each open editor option.
- 3. When this option is not selected, Toad attempts to use a single connection for any new windows or query execution. For example, if you share a database connection, you can execute a query in the Editor, execute another query in a new Editor, and then select the Data tab from the same connection.

If the single connection is in use when Toad attempts to execute it, the following occurs:

- (DB2 and Oracle only) If your database supports executing multiple queries simultaneously on a shared connection, the query is placed in a queue and executes as soon as the current operation completes.
- If your database does not support executing multiple queries on a shared connection, a dialog
 prompts you to either permanently associate the window with a new database connection, cancel
 the previous operation, or add the query to a queue until the current operation completes, and
 the execute it. If you place multiple queries in the queue, each one executes in the order that it
 was added to the queue.

Note: Although you can share a database connection, any commits apply to the selected window only.

Create Access Connections

Although this connection uses the ODBC driver, it is easier and faster to connect using this method. See "Troubleshoot Access Issues" on page 70 for more information about troubleshooting connection issues.

Notes:

• The Toad Sample Database and established connection that comes pre-loaded in Toad Data Point is an Access database. The connection information for this database is:

Database file = C:\Program Files\Quest Software\ToadInstallDirectory\Plugins\Odbc\Sample Database\Quest Stage.mdb

Additional sample files for this database are available in the Project Manager.

To create an Access connection

- 1. Click on the toolbar (ALT+F+N).
- 2. Select Access from the Group list box.
- 3. Review the following for additional information:

Database file	Select the database to use when connecting.
MDW file	Select the MDW file that is linked to the database.
Password	Enter the password to use when connecting.
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .

Category	Select or create a category if you want to color code Editor tabs for a specific connection. This can help differentiate between development and production databases. You can also set an option to color code the Object Explorer pane and object editor windows (Create, Alter, Drop, etc.).
	Click here to view a video of this feature.

4. Click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.

Considerations and Limitations

Consideration/Limitation	Description
Microsoft Access 2016 64-bit Office 365 64-bit	To successfully create a connection to an Access database using Microsoft Access 2016 64-bit, the Microsoft Access Database Engine is required and might not have been included in the Access installation. In addition, the architecture (bitness) of the engine must match the bitness of Toad.
	If using 64-bit Toad, the 64-bit version of Microsoft Access Database Engine is required.
	If using 32-bit Toad, the 32-bit version of Microsoft Access Database Engine is required.
	You can download the 64-bit or 32-bit Microsoft Access Database Engine components at: https://www.microsoft.com/en-us/download/details.aspx?id=13255 . https://www.microsoft.com/en-us/download/details.aspx?id=13255 .
	 Be sure to select the appropriate version (64-bit or 32-bit) of the AccessDatabaseEngine.exe installer to match the bitness of Toad.

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

■ Click here to view a video about creating connections in Toad Data Point

Create SAP Business Objects Connections

Toad allows you to connect to SAP® Business Objects through the Query as a Web Service (QaaWS) component to view and query data in QaaWS Queries.

Note: This feature is available in the Toad Data Point Professional Edition only.

To create a Business Objects connection

- 1. Click an on the Connections toolbar (ALT+F+N).
- 2. Select SAP Business Objects from the Group list.
- Enter the connection information in the Create New Connection dialog. Review the following for additional information:

URL	Enter the Business Objects URL to which you want to connect. This is the URL to
	the Query as a Web Service component of the Business Objects installation.

	See "Important Information about Business Objects Connections" on page 33 for more information.
	Note: The URL should be in the following format:
	http:// <server>:<port>/dswsbobje/qaawsservices</port></server>
Password	Enter the password to use when connecting.
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .
Category	(Optional) Select an existing category or create a new one.

Note: In NoSQL and Business Intelligence connections. Toad automatically saves the password in the connections.xml file as obfuscated text, as well as in Toad. To add additional password security, use Toad's Master Password feature.

- 4. Click Connect to connect immediately while saving the connection information. Optionally, click Save to save the connection without connecting.
- 5. Upon creating an initial connection, Toad automatically maps the data source objects. This process runs in the background, and until it is finished, you may experience a delay when attempting to access these objects.

Important Information about Business Objects Connections

To create a Business Objects connection in Toad, you must connect to the Query as a Web Service component in Business Objects. The connection URL should have the format:

http://<server>:<port>/dswsbobje/qaawsservices

Where <server> corresponds to your web server address, and <port> corresponds to the port where you set up in your web server. (dswsbobje is the default name of the Query as a Web Service web application.)

An example URL is http://server01:8080/dswsbobje/gaawsservices.

For more information about the Business Objects component, Query as a Web Service, see the documentation at http://help.sap.com/businessobject/product_guides/xir2PP/en/gaaws.pdf.

Tips:

- To specify a default value for a column parameter, select a Query and click
- Connections are stored in the connections.xml file and can be found by clicking the Application Data Directory link in Help | About.
- You can specify a proxy server to use for Business Intelligence and NoSQL connections at Tools | Options | Database | Data Services.

Configure DB2 Client Connections

Setting up connections to the DB2 for LUW databases and DB2 for z/OS subsystems that Toad will manage requires two main steps.

Step 1. Configure DB2 client connections - Before you can create a connection profile, each of the databases or subsystems must be cataloged on the DB2 client. This topic helps you with that process.

Step 2. Create connection profiles - Step 2 involves creating Toad connection profiles for the cataloged DB2 databases or subsystems. Each profile contains the information that Toad needs to connect to the system, such as the user ID and password, DB2 registry settings, and the default schema. See "Create Toad Connection Profiles for DB2" on page 40 for more information.

Note: You must have a DB2 client installed before you can configure client connections and create connection profiles. Beginning with Toad Data Point 3.6, a DB2 client is no longer included in the product installation. Refer to IBM for information regarding a DB2 client download, http://www-01.ibm.com/software/data/db2/linux-unix-windows/downloads.html, or consult your organization's IT department. For a list of supported DB2 client versions, see the Toad Data Point Release Notes.

If You Previously Used the Toad DB2 Client

If you previously used the Toad DB2 client installed with earlier versions of Toad Data Point, you may need to do the following:

- Install a DB2 client from IBM and set it as the default. Because Toad no longer installs a client along with the product, you must now have a DB2 client from IBM installed to use your DB2 connections.
- Transfer the catalog from the previous Toad DB2 client to your current default DB2 client. If you used
 the Toad DB2 client in a previous version of Toad, install a default DB2 client from IBM, and then
 transfer the catalog from the Toad client to the new default DB2 client. See Transfer a Catalog Any Time After Initial Setup.

To check default client

• You may want to check that the correct client is set as the default, before you import a catalog to it. The default client is identified as such in the Start menu (**Start | All Programs | IBM DB2**). The default client has "(Default)" after the client name.

To specify default client

• You can specify the default client using the Database Client Interface Selection Wizard (Start | All Programs | IBM DB2 client name | Database Client Interface Selection Wizard).

Configure DB2 Client Connections

Use one of the following methods to catalog each of the databases or subsystems on the DB2 client.

Transfer a Catalog Any Time After Initial Setup

Use this method to transfer a catalog from another DB2 client on your machine to your default DB2 client. If you previously used the Toad DB2 client installed with the product in prior versions, use this method to transfer the catalog from the previous Toad DB2 client to your current default DB2 client.

To transfer a catalog any time after initial setup

1. In the Connection Manager, click win the toolbar.

Note: If the Client Configuration Wizard opens, Toad found only one DB2 client installed.

2. From the **DB2 Client** list, select the name of the DB2 client whose catalog you want to transfer to your default DB2 client.

This list contains all current previously installed DB2 clients on your computer, including the default DB2 client instance and any Toad DB2 client installations.

- 3. Click OK.
- 4. To create a connection in Toad for any of the transferred catalog entries, see Create Toad Connection
 Profiles for DB2.

Import a DB2 catalog previously exported to a file

To import an exported catalog profile

- 1. In the Connections (or Create New Connection) window, click beside the **Database alias** drop-down list to open the Client Configuration wizard.
- 2. On the Welcome page, select Import Profile.
- 3. Click Next.
- 4. Click in the **Profile name** field to browse for and select the exported profile you want to import. When you select the profile, its contents display in the text pane.
- 5. Complete the wizard.

Once you close the wizard, the **Database alias** drop-down list in the Connections window includes all the DB2 databases and subsystems whose catalog entries you imported.

Note: DB2 does not automatically export catalog entries for the local DB2 instance and its databases on the computer from which the export is run (unless these entries already exist in the catalog). Therefore, the profile you are importing might not include these node entries. To add the missing entries to your DB2 client catalog, you must manually catalog the databases. If these databases are local to your computer, catalog them as remote databases. See "Manually catalog DB2 for LUW databases " on page 35 for more information.

6. Proceed to catalog entries as needed. See "Create Toad Connection Profiles for DB2" on page 40 for more information.

Manually catalog DB2 for LUW databases

To manually catalog a DB2 for LUW database

- 1. In the Connections (or Create New Connection) window, click beside the **Database alias** dropdown list to open the Client Configuration wizard. The Welcome page displays, showing the DB2 client's existing catalog configuration in a tree view.
- 2. If the host and node names for the database you want to configure are listed in the tree, select them. These selections pre-fill certain fields required later in the wizard process. If these names are not listed, you must provide the necessary host and node information later in the wizard.
- 3. Click Add Catalog Entry.
- 4. Review the following for additional information:

Add a Host	Description
Operating system	Select the operating system for the server on which the DB2 for LUW instance containing the DB2 database you are cataloging resides. For a list of supported server platforms, see the release notes.
Host name	Enter the TCP/IP address or the system name for the server on which the DB2 database resides.
Port number	Enter the port number for the server on which the DB2 database resides.
Security type	Select a secure protocol to handle TCP traffic for this connection.
Specify an Instance	Description
Node name	Enter a user-defined name for the DB2 instance containing the database you are cataloging. If you selected the node name from the tree on the Welcome page, this
	information is pre-filled (but you can update it as needed).
Instance name	Enter the real name of the DB2 instance.
Comment	Enter a descriptive comment for the instance, if needed.
Add a Database	Description
Database name	Enter the real name of the DB2 database.
Database alias	Enter a unique nickname to identify the database on your system.
Authentication	Select the authentication method that is required to connect to the database.
Target principal	Enter the service account name for server's service where the database resides. Note: This option is available only when <i>Kerberos</i> is selected as the authentication method.

5. Complete the wizard.

The **Database alias** drop-down list in the Connections window shows the alias for the newly cataloged database. To complete the Toad connection setup, you must create a Toad connection profile for the database. See "Create Toad Connection Profiles for DB2" on page 40 for more information.

Manually catalog DB2 for z/OS subsystems

Note: If you connect directly to a DB2 for z/OS subsystem, you cannot take advantage of Sysplex. If you want to use Sysplex, catalog an entry to a DB2 Connect gateway instead. See "Manually catalog DB2 Connect gateways" on page 37 for more information.

To manually catalog a DB2 for z/OS subsystem

- 1. In the Connections (or Create New Connection) window, click beside the **Database alias** drop-down list to open the Client Configuration wizard. The Welcome page displays, showing the DB2 client's existing catalog configuration in a tree view.
- 2. If the host name for the DB2 subsystem you want to configure is listed in the tree, select it. This selection pre-fills certain fields required later in the wizard process. If the host name is not listed, you must provide the necessary host information later in the wizard.
- 3. Click Add Catalog Entry.
- 4. Review the following for additional information:

Add a Host	Description
Operating system	Select z/OS for the server operating system.
Host name	Enter the TCP/IP address or the system name for the server on which the DB2 subsystem resides.
Port number	Enter the port number of the service for the DB2 subsystem.
Enable SOCKS security	Select this checkbox to enable the SOCKS secure protocol to handle TCP traffic for this connection. SOCKS adds an authentication mechanism for additional security.
Add a DB2 Subsystem	Description
Location name	Enter the location name of the DB2 subsystem as defined during the DB2 installation.
Database alias	Enter a unique, user-defined alias to identify the DB2 subsystem on your system. You can use the same name you used in the previous Location name field, as long as it does not already exist in the list aliases in the DB2 client.

5. Complete the wizard. A message informs you whether the entry was added successfully.

The **Database alias** drop-down list in the Connections window shows the alias for the newly cataloged subsystem. To complete the Toad connection setup, create a Toad connection profile for the database. See "Create Toad Connection Profiles for DB2" on page 40 for more information.

Manually catalog DB2 Connect gateways

In order to connect to a DB2 for z/OS subsystem, you need to catalog two entries. First, you need to catalog the DB2 subsystem on the DB2 Connect gateway. During this process, you define an alias for the DB2 subsystem. Second, you need to catalog this DB2 subsystem alias in Toad. The procedure below describes both cataloging events.

To manually catalog an entry to a DB2 Connect gateway

- 1. Catalog the DB2 subsystem on the DB2 Connect gateway. See the IBM DB2 for z/OS documentation for more information.
- 2. In the Connections (or Create New Connection) window in Toad, click beside the **Database alias** drop-down list to open the Client Configuration wizard.
- 3. Click Add Catalog Entry.
- 4. Review the following for additional information:

Add a Host	Description
Operating system	Select the operating system for the server on which the DB2 Connect gateway resides.
Host name	Enter the TCP/IP address or the system name for the server on which the DB2 Connect gateway resides.
Port number	Enter the port number of the service for the DB2 Connect gateway.
Enable SOCKS security	Select this checkbox to enable the SOCKS secure protocol to handle TCP traffic for this connection. SOCKS adds an authentication mechanism for additional security.

Specify an Instance	Description
Node name	Enter an alias for the user-defined node name you specify in the Instance name field.
Instance name	Enter a user-defined name for the gateway node or use the same value entered in the Node name .
	Note: This name does not point to an actual node on the gateway system, but is needed to continue the cataloging process.
Add a Database	Description
Database name	Enter the database alias name for the DB2 subsystem. Note: This alias name must match the alias cataloged on the DB2 Connect gateway.
Database alias	Enter a unique, user-defined alias for the DB2 Connect gateway. You can use the same alias you used in the previous Database name field, as long as it does not exist in the list of Toad for DB2 aliases.
Authentication	Select the authentication method that matches the method specified for the DB2 subsystem on the DB2 Connect gateway.

5. Complete the wizard.

The **Database alias** drop-down list in the Connections window shows the name for the newly cataloged DB2 subsystem. To complete the Toad connection setup, you must create a Toad connection profile for the subsystem. See "Create Toad Connection Profiles for DB2" on page 40 for more information.

Note: Toad for DB2 supports LDAP connections. See "Configure DB2 LDAP Support" on page 40 for more information.

Maintain DB2 Client Connections

Additionally, Toad provides functionality to perform the following maintenance on the catalog you set up for the current DB2 client:

Edit DB2 catalog entries

To edit a DB2 catalog entry

- 1. In the Connections (or Create New Connection) window, click beside the **Database alias** drop-down list to open the Client Configuration wizard.
- 2. In the catalog configuration tree for the DB2 client, select the catalog entry for the DB2 database or subsystem that you want to edit.
- 3. Click Edit Catalog Entry.
- 4. On the Edit Catalog Entry page, update the catalog properties as needed. For a description of the catalog properties, see the following links:
 - Manually catalog DB2 for LUW databases
 - Manually catalog DB2 for z/OS subsystems
 - Manually catalog DB2 Connect gateways
- 5. Click Next to open the Catalog Script Review window.
- 6. Review and modify the script in the preview pane as needed.

Click Finish. A message window displays, informing you whether the updates to the catalog entry completed successfully.

Remove DB2 catalog entries

To remove a DB2 catalog entry

- 1. In the Connections (or Create New Connection) window, click beside the **Database alias** drop-down list to open the Client Configuration wizard.
- 2. In the catalog configuration tree for the DB2 client, expand one or more nodes, and select the catalog entries that you want to remove. (Press CTRL+click to select multiple entries.)

Note: You can remove a node by selecting all database entries for that node.

- 3. Click Remove Catalog Entry.
- 4. On the Catalog Script Review page, modify the script in the preview pane as needed.
- 5. Click Finish. A message window displays, informing you whether the removals completed successfully.

Export the catalog for the current DB2 client

Toad Data Point provides functionality to export your current DB2 client catalog to a file, called an *export profile*. You can then import this profile to set up the catalog for another DB2 client.

To create the export profile containing the current DB2 client catalog, Toad executes the DB2 Connectivity Configuration Export Tool command <code>db2cfexp</code>. If you want to export the catalog of a remote or local DB2 client (other than your current DB2 client), you must manually execute this command. For more information, see the following IBM documentation: http://publib.boulder.ibm.com/infocenter/db2luw/v8/index.jsp?topic=/com.ibm.db2.udb.doc/core/r0002442.htm.

To export the DB2 client catalog

- 1. In the Connections (or Create New Connection) window, click beside the **Database alias** drop-down list.
- 2. Click **Export Profile** in the Welcome window of the Client Configuration wizard. (You might need to click this button.)
- 3. Click Next.
- 4. Click in the **Profile name** field to browse for and select the path for the profile in which to export the current DB2 client catalog.
- 5. Select the type of profile you want to create:
 - Template to create a profile used as a template for other DB2 clients (default for exporting a DB2 catalog)
 - Backup to create a profile used to back up a DB2 database instance
 - Maintain to create a profile that contains only database or node information required for updating other instances

For more information about these profile types, see the IBM documentation (as cited previously) describing the ${\tt db2cfexp}$ command.

6. Complete the wizard. A message window displays, informing you whether the export completed successfully.

Note: DB2 does not automatically export catalog entries for the local DB2 instance and its databases installed on your computer unless these entries already exist in the catalog you are exporting. If you later import the export catalog to a DB2 client, you must manually catalog the missing local-node databases as remote databases. See "Manually catalog DB2 for LUW databases" on page 35 for more information.

After you have set up the catalog on the current DB2 client, you can proceed to the second phase of the Toad connection setup. This phase involves creating Toad connection profiles for the cataloged DB2 databases or subsystems. See "Create Toad Connection Profiles for DB2" on page 40 for more information.

Configure DB2 LDAP Support

You can create DB2 Lightweight Directory Access Protocol (LDAP) connections when the DB2 client installed with Toad is configured for LDAP. Configuring the client consists of enabling LDAP support and specifying the host name and port number of the LDAP server. Once the client is configured, Toad retrieves names from your LDAP server and displays them in the **Database Alias** list in the Connections window.

Notes:

- You must configure LDAP support for the DB2 client installed with Toad regardless of whether an existing DB2 client on the computer is already configured to support LDAP.
- Currently, Toad for DB2 supports only the access of DB2 LDAP catalog entries. Toad does not support the management of these entries.

To configure the DB2 client for LDAP

- 1. Open the Command Window for the DB2 client installed with Toad by selecting **Start | All Programs | IBM DB2 | <ToadCom, ToadEval, or ToadFree> | Command Line Tools | Command Window**.
- 2. Enter the following command to enable LDAP support:

```
db2set DB2 ENABLE LDAP=YES
```

3. Enter the following command to specify the TCP/IP host name and port number of the LDAP server:

```
db2set DB2LDAPHOST=<hostname[:port]>
```

The port number defaults to 389 (default LDAP port) if you leave the port number blank.

- 4. Exit the Command window.
- 5. Launch Toad and open the Connections window.

Databases on the LDAP server should be available from the **Database alias** drop-down list in the Connections window. To complete the Toad connection setup, you must create a Toad connection profile for each database. See "Create Toad Connection Profiles for DB2" on page 40 for more information.

Create Toad Connection Profiles for DB2

Setting up connections to the DB2 for LUW databases and DB2 for z/OS subsystems that Toad will manage requires two steps.

Step 1. Configure DB2 client connections - If you use a DB2 client each of the databases or subsystems must be cataloged on the client. See Configure DB2 Client Connections to learn how to catalog databases/subsystems.

Step 2. Create connection profiles - Step 2 involves creating Toad connection profiles for DB2 databases or subsystems that were either cataloged in the DB2 client or imported from your Data Server Driver configuration file. Each profile contains the information that Toad needs to connect to the system, such as the user ID and password, DB2 registry settings, and the default schema. If you use IBM DSD environment you can import your connection profile from a Data Server Driver configuration file.

Note: You must have a DB2 client installed before you can configure client connections and create connection profiles. Beginning with Toad Data Point 3.6, a DB2 client is no longer included in the product installation. Refer to IBM for information regarding a DB2 client download, http://www-01.ibm.com/software/data/db2/linux-unix-

windows/downloads.html, or consult your organization's IT department. For a list of supported DB2 client versions, see the Toad Data Point Release Notes.

Note: The default location of your Data Server Driver configuration file is in ...Program Data\IBM\DB2\IBMDBCL1\cfg. The default config filename is db2dsdriver.cfg.

Note: When you connect using IBM Data Server Driver the Database button and the toolbar option in Tools | LUW Database Options will not be available.

Click here to view a video about creating connections in Toad Data Point

Connection Using a Custom Connection String

You can also connect to your DB2 database/subsystem using a custom connection string.

- Select Connect Using | Connection String in Connection Properties
- Enter Database alias, Host name, Login, and Password and the connection string will be automatically updated according to what you enter
- You can save a connection created using a custom connection string in your Connection Manager

If You Previously Used the Toad DB2 Client

If you previously used the Toad DB2 client installed with earlier versions of Toad Data Point, you may need to do the following:

- Install a DB2 client from IBM and set it as the default client. Because Toad no longer installs a client along with the product, you must now have a DB2 client from IBM installed to use your DB2 connections.
- Transfer the catalog from the previous Toad DB2 client to your current default DB2 client. If you used the
 Toad DB2 client in a previous version of Toad, install a default DB2 client from IBM, and then transfer the
 catalog from the Toad client to the new default DB2 client. See "Configure DB2 Client Connections" on
 page 34 for more information.

Create Connection Profiles

Use one of the following methods to create Toad connection profiles:

Import Toad connection profiles previously exported to an XML file

(See "Export connection profiles to an XML file" on page 42 for more information about exporting a profile that you can later import.)

Note: The connection profiles are not usable unless you have also created entries in the DB2 catalog for the DB2 databases and subsystems to which these profiles correspond. See "Configure DB2 Client Connections" on page 34 for more information.

To import connection profiles

- In the Connections (or Create New Connection) window, click on the toolbar, and select Connection file.
- 2. From the Import Connections window, browse for and select the XML file containing the connection profiles you want to import.
- 3. Click Open.
- 4. Select DB2 and click OK to complete the import.

The connections whose profiles you imported are listed on the Connections window.

. Manually define Toad connection profiles.

To create a Toad connection profile for a DB2 database or subsystem

- 1. In the Connections (or Create New Connection) window, click and on the toolbar (ALT+F+N).
- 2. Select IBM DB2 LUW or IBM DB2 z/OS from the Group list box.
- 3. Review the following for additional information:

Database alias	Select the alias for the DB2 database or subsystem. This alias was defined when you cataloged this DB2 database or subsystem on the DB2 client. See "Configure DB2 Client Connections" on page 34 for more information if the alias does not display in the list. Tip: Click to refresh the alias list. Normally, Toad caches the DB2 catalog the first time you open this window in your Toad session and continues to read from cache each time you subsequently open this window. This button forces Toad to reread the DB2 catalog to list any new systems that might have been cataloged externally during the caching period.
Default schema/auth ID	Enter the SET SCHEMA value (DB2 for LUW) or the SET SCHEMA or SET CURRENT SQLID value (DB2 for z/OS) for this connection.
Category	Select or create a category if you want to color code Editor tabs for a specific connection. This can help differentiate between development and production databases. You can also set an option to color code the Object Explorer pane and object editor windows (Create, Alter, Drop, etc.). Click here to view a video of this feature.

- 4. Select the Advanced tab to define special register values that are then in effect each time Toad connects to the DB2 database or subsystem.
- 5. Click **Connect** to save the connection and immediately connect to the database.

or

Click Save to save the connection without connecting to the database.

Manage Connections

After you have completed both phases for configuring Toad connections to DB2 databases or subsystems, the Connections window lists all the configured connections, allowing you to perform the following:

- Connect to and manage a DB2 database or subsystem through Toad
- Export connection profiles to an XML file

Toad for DB2 provides functionality to export one or more of your current Toad connection profiles to an XML file. You can then import these exported connection profiles into another Toad installation. See "Import Toad connection profiles previously exported to an XML file "on page 41 for more information.

To export connection profiles

- 1. In the Connections (or Create New Connection) window, select the connections whose profiles you want to export.
- 2. Click on the toolbar, and select Connection file.
- 3. On the Export Connections window, review the selected connections, and click **OK**.
- 4. Browse for and select the path for the file in which to export the selected profiles.

· Import missing connections defined on the Toad client

You can import all connection entries currently defined in the DB2 client catalog or Data Server Driver configuration file but missing from your current list of Toad connections.

Note: Default location for Data Server Driver configuration files is in ...\IBM\DB2\IBMDBCL1\cfg.

Note: The imported connection entries might be associated with incorrect or missing DB2 catalog or Toad connection profile information, making them currently invalid. To re-instate any of these connections, you might need to provide accurate DB2 catalog and Toad profile information.

To import missing connections

- In the Connections or Connections Manager window, click .
- Troubleshoot connection issues

Note: Click to open the Client Configuration Wizard. See "Configure DB2 Client Connections" on page 34 for more information.

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

Create Excel Connections

Connecting to an Excel file is easy. To create the connection, simply open the Excel file from the Create New Connection dialog ...

To create an Excel connection

- 1. Click an on the Navigation or Connection Manager toolbar.
- 2. Select Excel from the Group list.
- 3. Browse to and select the Excel file.
- 4. Complete the Create New Connection dialog. Review the following for additional information:

General Tab	Description
Category	Select a category if you want to color code your connection.
	Tip: The color is applied in the Connection Manager and other connection dialogs. You can also create a new category for your connection.
Advanced Tab	Description
Enable import mode	Select this checkbox to set IMEX=1 in the connection string, which converts intermixed data to text.
Show system tables	Select to display worksheets as system tables. Toad uses the worksheet name suffixed with a dollar sign (\$).
Automatically create ranges	Select this option if you want Toad to automatically create named ranges. Toad creates one named range in each worksheet (unless the Toad name, AutoRange_ <worksheet name="">, already exists).</worksheet>
	Note: Toad does not overwrite the user defined named ranges. The Toad-created named ranges and the user defined named ranges are both visible in the Object Explorer after connecting.
	Deselect this option if the Excel file contains user defined named ranges and you do not want Toad to create additional named ranges.

	Important: If you deselect this option, and your Excel file does not contain named ranges, Toad is unable to create tables from your data. The feature is <i>selected</i> by default.
Hide named ranges	Select the named ranges to hide. Note: Named ranges are not displayed until after a connection is created (in the Connections or Connection Properties dialog). In Excel 2007 files, named ranges are not displayed for active connections.
Open in Excel	Click to open the selected file in Excel. This is useful if you want to modify your file or define named ranges before connecting.

4. Click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.

Understand how Toad creates data tables from an Excel file

Toad uses Excel named ranges (regions) to define the data to include in a table. Therefore, any data that you want to display and easily query in Toad must be included in an Excel named range (region).

You can create named ranges using one of the following methods:

- Preferred method: You can ask Toad to automatically create named ranges when you create the
 connection to the Excel file. Toad creates one table from each worksheet and includes the contents of
 every formatted cell.
- If you do not want to include a worksheet's entire contents in one named range, or if a worksheet contains more than one table, then define the named ranges ahead of time in Excel.

To create a named range in Excel

- 1. In the Excel file, select the data that you want to include in the table (including column headings). Then define a named range.
 - » In Excel 2003, select Insert | Name | Define.
 - » In Excel 2007, right-click the data and select Name a Range.
- 2. Save your Excel file. In Toad, create a new connection to the file. In the New Connection dialog, deselect **Automatically create ranges**.

To allow Toad to automatically create named ranges

» When creating a new connection to the Excel file, in the New Connection dialog, select Automatically create ranges. Toad creates one named range for each worksheet and includes the contents of every formatted cell.

Tip: For an Excel file with an existing connection, in the Navigation Manger, right-click the file and select **Properties**. On the Advanced tab, select **Automatically create ranges**. Toad creates the named ranges the next time you reconnect to this file.

To hide named ranges

You can hide an Excel file's named ranges so that they do not display as tables in the Object Explorer.

- 1. In the Navigation Manager, right-click an Excel file connection and select Properties.
 - Note: In Excel 2007 files, the connection must be inactive for the named ranges to display.
- 2. On the Advanced tab, select the named ranges to hide.

To view or modify connection properties

To view an Excel connection's properties, do one of the following:

- Right-click an Excel file connection in the Navigation or Connection Manager and select Properties.
- Select an on the Connections toolbar to open the Connections dialog. Select the Excel file connection in the left pane to view the connection properties in the right pane.

Considerations and Limitations

Consideration/Limitation	Description
Excel 2016 64-bit or Office 365 64-bit	To successfully create a connection to an Excel file using Excel 2016 64-bit, the Microsoft Access Database Engine is required and might not have been included in the Excel installation. In addition, the architecture (bitness) of the engine must match the bitness of Toad.
	If using 64-bit Toad, the 64-bit version of Microsoft Access Database Engine is required.
	If using 32-bit Toad, the 32-bit version of Microsoft Access Database Engine is required.
	You can download the 64-bit or 32-bit Microsoft Access Database Engine components at: https://www.microsoft.com/en-us/download/details.aspx?id=13255 . Program to a least the appropriate complete (C44 bit or 20 bit) of
	 Be sure to select the appropriate version (64-bit or 32-bit) of the AccessDatabaseEngine.exe installer to match the bitness of Toad.
	Note: This requirement applies only to connections to Excel, not to the Toad functionality of importing/exporting to Excel.

Troubleshoot Excel

To troubleshoot Excel issues, see the following:

- See "Troubleshoot Excel® Issues" on page 73 for more information about troubleshooting Excel connection issues.
- For a list of Excel file limitations from Microsoft, see Microsoft Excel specifications and limits.
- For special considerations when using Excel macro-enabled files, especially in Automation scripts, see Using Macro-Enabled Excel Files.

■ Click here to view a video about creating connections in Toad Data Point

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

Create Google Analytics Connections

Toad allows you to create connections to your Google Analytics data. A connection in Toad allows you to access the Google Analytics accounts and data that are available to you from your Google *user* account.

If you have multiple Google user accounts, you can create a separate Google Analytics connection in Toad for each account. For an explanation of Google accounts, see the following: <a href="https://developers.google.com/analytics/resources/concepts/gaCo

Note: This feature is available in the Toad Data Point Professional Edition only.

About Google Analytics Connections

When you create a Google Analytics connection in Toad, you log in to Google using your Google account. During the connection creation process, you also grant Toad access to the Google Analytics data accessible from that Google account.

Toad provides you with an interface to the Google log-in and authorization pages and displays these pages within the Create New Connection (and Connection Properties) dialog. The Google pages displayed are independent of Toad. The log-in process is the same as you normally encounter with your other Web-based Google log-in procedures. The only difference is that by creating a connection in Toad, you are giving Toad permission to access your Google Analytics data. This is accomplished when you click *Accept* in the Google authorization page.

Create Google Analytics Connections

To create a Google Analytics connection

- Click an on the Connections toolbar (ALT+F+N).
- 2. In the **Group** list, select *Google Analytics*. The Google log-in page immediately displays within the Create New Connection dialog.
- 3. Enter the credentials (email address and password) for your Google account and click Sign in.

Note: If you have multiple Google accounts and have previously logged in to Google (or connected through Toad), the Google log-in page may display the last Google account used. To specify a different Google account for the new connection, use the Google links/menu to select another account.

- 4. (optional) You can enter a name for your new account and select a category. You can also make these modifications later using the Connection Properties dialog.
- 5. In the Google authorization page that displays, click **Accept** to allow Toad access to your Google Analytics data. Toad then attempts to establish a connection to Google Analytics. If the connection is successful, the Create New Connection dialog closes.
- 6. Upon creating an initial connection, Toad automatically maps the data source objects. This process runs in the background, and until it is finished, you may experience a delay when attempting to access these objects.

Reauthorizing a Connection

If you encounter an error message when attempting to connect using your Google Analytics connection, Toad's authorization (access) to the Google account for that connection may have been lost. Use the following procedure to re-establish authorization for the connection.

You can also use this procedure to specify a different Google log-in account for a connection.

To Reauthorize

- 1. In the Navigation Manager, disconnect from the connection. You must disconnect before you can re-authorize.
- 2. After disconnecting, right-click the connection and select Properties.
- 3. In the Connection Properties dialog, click Reauthorize.
 - If you are no longer logged in to Google, the Google log-in page displays.
 - To reauthorize using the same Google account, re-enter your Google account credentials and click **Sign-in**. Then click **Accept** on the authorization page.

- To specify a different Google account for this connection, use the Google links to switch
 the account just as you normally would in the Google Web site. Once you specify a
 different account, this is the Google account associated with this connection in Toad. Click
 Sign-in. Then click Accept on the authorization page.
- If you are still logged in to Google, the Google page for granting Toad access to your Google Analytics data displays.
 - To reauthorize using the same Google account, click Accept.
 - To specify a different Google account for this connection, use the Google menu or links to switch the Google account just as you normally would in the Google Web site. Once you specify a different account, this is the Google account associated with this connection in Toad. Click Sign-in. Then click Accept on the authorization page.

Notes:

You can specify a proxy server to use for Business Intelligence and NoSQL connections at Tools |
 Options | Database | Data Services.

Create Hive Connections

Toad allows you to connect to a Hive data warehouse system. Apache Hive is one of the NoSQL data sources supported by Toad.

Note: This feature is available in the Toad Data Point Professional Edition only.

To create a Hive connection

- 1. Click an on the Connections toolbar (ALT+F+N).
- 2. Select Apache Hive from the Group list.
- Enter the connection information in the Create New Connection dialog. Review the following for additional information:

Server tab	
Host	Enter the host name or IP address of the Hive data source.
Port	Enter the port number.
Schema	Enter a Hive schema to open upon connection. (HiveServer2 only) After connecting, you can select a different available schema in the Object Explorer.
Server type	Select the version of HiveServer the host uses, HiveServer1 or HiveServer2.
Use SSL	(HiveServer2 only) Select to use SSL to connect to Hive.
HTTP mode	(HiveServer2 only) Select to connect to HiveServer2 running in HTTP mode. Then enter the service endpoint. The default is <i>cliservice</i> .
Session Initialization	(HiveServer1 only) Enter any Hive session initialization commands. These commands will be executed once, at the start of each connection.
Category	(Optional) Select an existing category or create a new one.
Authentication tab (HiveServer1)	
Connect with	Select to use SSH to connect to Hive. Then enter a user name and select an

SSH	authentication method (key file or password).
SSH user	Enter the user name to log in when using SSH.
SSH port	Select the SSH port number. The default is 22.
Authenticate with a key file	Select if the host uses a key file to authenticate the SSH user field. Private key path—Enter the absolute path (including file name) to the private key file on the host (not the client). Pass phrase—Enter your passphrase.
Authenticate with a password	Select if the host uses a password to authenticate the SSH user field. Password—Enter the password to log in using SSH.
Authentication tab (HiveServer2)	
Authentication	Select an authentication method.
	To enter only a user name, select the Username and password method.
Username	Enter the user name to use for this connection. If using Kerberos authentication, enter your user name in the following format: user@REALM or domain\user.
Hive host realm	(Kerberos only) Enter the Kerberos realm of the HiveServer2 host. Note: If necessary, contact your IT department to obtain this information. Before you can successfully connect to Hive using Kerberos authentication, the Toad client computer must have a Kerberos Key Distribution Center (KDC) address entry for the Hive host realm. To define the KDC entry, use the following procedure. Open a Windows Command Prompt as Administrator and enter the following command: ksetup /addkdc <realm> <kdc name=""> You only need to run this command once for the given realm. To confirm the setting, enter the following command: ksetup. This command should return both the name of the Hive host realm and the KDC name you specified.</kdc></realm>
Hive host FQDN	(Kerberos only) Enter the fully-qualified domain name (FQDN) of the HiveServer2 host. Note: If necessary, contact your IT department to obtain this information.
Service name	(Kerberos only) Enter the service name of the Hive server. The default is <i>hive</i> .
COLVIDO HAIRIO	Transfer of the Service name of the Three Server. The default is mive.

Note: In NoSQL and Business Intelligence connections, Toad automatically saves the password in the connections.xml file as obfuscated text, as well as in Toad. To add additional password security, use Toad's Master Password feature.

- 4. Click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.
- 5. Upon creating an initial connection, Toad automatically maps the data source objects. This process runs in the background, and until it is finished, you may experience a delay when attempting to access these objects.

Tips:

- Connections are stored in the **connections.xml** file and can be found by clicking the *Application Data Directory* link in **Help | About**.
- You can specify a proxy server to use for Business Intelligence and NoSQL connections at Tools |
 Options | Database | Data Services.

Create a Connection to Intelligence Central

Toad allows you to create a connection to a Toad Intelligence Central server.

The purpose of Toad Intelligence Central (TIC) is to give Toad Data Point users a place to store and share data. After creating a connection to an Intelligence Central instance, not only can you view data that is made available to you, you can publish data from other sources in the form of snapshots, views, and datasets.

Note: This feature is available in the Toad Data Point Professional Edition only.

About Toad Intelligence Central Connections

To create a new TIC connection, you must provide the TIC server name and then register with TIC by creating a new user account for yourself. The new user name and password will be used by TIC to identify you from among the group of TIC users and to manage the objects you create and are granted access to on the TIC server.

A TIC connection displays in the Navigation Manager in the format: **username@server**. The *username* is the name of the new user you create when you create a new TIC connection.

To create an Intelligence Central connection

- 1. Click an on the Connections toolbar (ALT+F+N).
- 2. Select Intelligence Central from the Group list.
- 3. Select the Register New User tab.
- 4. **Register New User.** Use this tab to register with Intelligence Central by creating your own account (user name and password). Review the following for additional information:

Note: If you are creating a connection to a Intelligence Central instance for which you already have a user account, do not fill in this tab again. Skip ahead to the next step (Login tab).

Register New User	
Use Windows Authentication	Select to create a new user account using your Windows credentials. Toad automatically populates the fields with your account information. See <u>Limitations</u> of Using Windows Authentication.
Host	Enter the name of the Intelligence Central host server. Click ••• to display a list of Intelligence Central servers currently active on the network.
User Name	Create a new user name for this connection. This is the name you will be logged in with. The objects you create will be linked to this user name. All your TIC rights (like sharing) will be linked to this user name. This user name will display in your connection in the Navigation Manager in the format:
	wsername@server Note: User names must be lower case only. When you enter a user name, all upper-case characters are automatically converted to lower-case.
Password	Create a password.
Verify Password	Re-enter the password to confirm.
Full Name	Enter your full name. This name, along with your user name, displays on the Sharing tab of the Publishing dialog and in the Alter Visibility dialog. Your full name will help users

	identify you when they select users with which to share an object.
Email Address	Enter your email address.
Port	Enter the port number for the App Server.

5. **Login as Existing User tab.** Use this tab to create a new connection to a TIC server for which you already have a user account. (When you open an existing connection, this tab displays your user account information.)

Login as Existing User	
Host	Enter the name of the Intelligence Central host server. Click ••• to display a list of Intelligence Central servers currently active on the network.
User	Enter an existing server user name.
Password	Enter the existing password for the user name.
Data Source	(Optional) Enter the name of a default data source to open upon connection.
Port	Enter the port number for the App Server.
Category	(Optional) Select an existing category or create a new one.

6. Advanced tab. (Optional) Use the Advanced tab to specify ODBC drivers to use when publishing to this TIC server.

Note: Specify an ODBC driver **only** if you are having difficulty publishing to this TIC instance from a particular database type.

Advanced	
ODBC Drivers	Specify an ODBC driver for each database type that you are having difficulty publishing from. That ODBC driver will be used when publishing from this database type using this connection.

7. (Optional) Select **Save Password** to save your password with this connection.

Note: This option is disabled if Toad was installed with Prohibit saving passwords selected.

8. Click **Connect** to connect immediately and save the connection information. Optionally, click **Save** to save the connection without connecting.

To change your Intelligence Central user password

You can change your password for your Intelligence Central user account at any time.

Note: You cannot use this procedure to change the password for a Intelligence Central account that uses Windows Authentication.

- 1. In the Navigation Manager, right-click the Intelligence Central connection and select **Change Password**.
- 2. Enter the old password and then enter the new password. Enter the new password a second time to confirm.

To switch your TIC user account to a Windows Authentication account

You can switch your current Intelligence Central account to a Windows Authentication account if both accounts have the **same** user name.

- 1. In the Connection Manager, right-click your current TIC account connection and select **Properties**.
- 2. In the **Register New User** tab, select **Use Windows Authentication**. Toad prompts you to switch your account.

Limitations of Using Windows Authentication

Consideration/Limitation	Description	
Windows Authentication connection and cross-	Cross-connection query using a Windows Authentication Intelligence Central connection is not supported.	
connection query	Workaround: To use an Intelligence Central connection in a cross-connection query, log-in using a standard Intelligence Central user account, not a Windows Authentication account.	
Publishing data objects from a Windows Authentication connection is not supported	You cannot publish a data object (view or snapshot) from one Intelligence Central instance, TIC1, to another, TIC2, if you are connected to TIC1 using Windows Authentication.	
	Workaround: To publish a data object from Intelligence Central, please connect to TIC using a standard Intelligence Central user account, not a Windows Authentication account.	

Tip: Connections are stored in the **connections.xml** file and can be found by clicking the *Application Data Directory* link in **Help | About**.

Create MySQL or MariaDB Connections

You can create a new connection, or connect to an existing connection from the Create New Connection window. See "Troubleshoot MySQL Issues" on page 80 for more information about troubleshooting MySQL connection issues.

To create a MySQL or MariaDB connection

- 1. Click an on the toolbar (ALT+F+N).
- 2. Select either MySQL or MariaDB from the Group list box.
- 3. Review the following for additional information:

Login Tab	Description	
Connection type	Select the protocol to use when connecting.	
Host	Enter the name of the host computer where the database is installed.	
Password	Enter the password to use when connecting. Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security.	
Connection timeout	Enter the number of seconds to wait when connecting before the application times out. The default is 15 seconds.	
SSL	If you selected SSL as the connection type, review the following for additional information: Private key—browse to the location of the SSL key file to use when connecting. CA cert—browse to the location of the trusted certificate authority to use when connecting.	

Cert—browse to the location of the SSL certificate file to use when connecting.
Select this checkbox to compress the value of any strings and return binary values.
Select this checkbox to use an embedded MySQL library instead of the MySQL .NET provider. Note: If you select this option, you must specify libMySQL.dll in the path.
Select or create a category if you want to color code Editor tabs for a specific connection. This can help differentiate between development and production databases. You can also set an option to color code the Object Explorer pane and object editor windows (Create, Alter, Drop, etc.). Click here to view a video of this feature.
Description
Select an ODBC driver to use when executing cross-connection queries using this connection.
Tip: You can specify the ODBC driver to use for all connections for this database provider in Tools Options Database MySQL .

4. Click **Connect** to save the connection and immediately connect to the database.

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Click Save to save the connection without connecting to the database.

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

Create ODBC Connections

Toad Data Point allows you to create a connection to a database that supports an ODBC 3.0 or later driver. ODBC connectivity provides basic querying capability, but may not be as full-featured as a native connection in Toad. For a list of databases tested with the ODBC provider, see the Release Notes.

This form of connectivity allows connections to databases such as Netezza, IBM iSeries, Ingres, and Vertica.

Note: Distinct values are not available in Code Completion for ODBC connections.

DSN Architecture (Bitness) Must Match Toad

To create a successful ODBC connection, the architecture (bitness) of the driver in the specified DSN must match the architecture (bitness) of Toad. For example, 64-bit Toad requires an applicable 64-bit driver and 32-bit Toad requires an applicable 32-bit driver.

To create an ODBC connection

- 1. Click on the toolbar (ALT+F+N+O).
- 2. Select ODBC Generic from the Group list box.
- 3. **Use data source name**—Select to display data source names. Clear this check box if you want to display the driver names.

- 4. To create a data source to use in this connection, click in the **Data Source Name** field. Then click
- 5. Select an ODBC driver from the list, and click Finish.

Note: If creating an Oracle ODBC connection, select the ODBC driver provided by Oracle. The Microsoft ODBC for Oracle driver has less functionality than the driver provided by Oracle.

6. Specify the configuration properties required for the database in the Windows configuration dialog.

Notes:

- If you have an Oracle database with Unicode data, make sure to select Force SQL_WCHAR
 Support on the Workarounds tab of the windows Oracle ODBC Configuration dialog. If you do
 not, you will not be able to see the data.
- If creating a MySQL ODBC connection to use in a cross-connection query, you must specify a database in the Windows MySQL ODBC Configuration dialog.
- 7. Specify the connection properties in the Create New Connection dialog. Review the following for additional information:

General		
Data source name	Select the driver or data source name you added in the previous steps.	
User	Enter the user name to use when connecting.	
Password	Enter the password to use when connecting.	
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .	
Database	Select a database or schema. Click to create a temporary connection and display available databases/schemas in the drop-down list.	
Information		
Data Source Name	Displays the selected driver or data source name.	
Driver	Displays the ODBC driver associated with the data source.	
Advanced		
Default Table	Specify default options to use when creating a new table.	
Column	Column type—Select the default data type to use when creating a table.	
	Column length —For the selected column type, enter a default column length to use.	
Advanced Options	Block Cursor Size —Specify the number of rows to return in a single fetch of data from the result set.	
	Disable multi-threading —Multi-threading is disabled by default. Enable multi-threading only if supported by the driver. Multi-threading can improve performance, but can also result in unpredictable behavior if not supported by the driver.	
	Default: Selected	
Category	(Optional) Select an existing category or create a new one.	

8. Click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

Tips for Working with ODBC Connections

Tip	Description
Filter DSN by bitness	To filter Data Source Names displayed in the New Connection dialog by the bitness of Toad, go to Tools Options Database ODBC .
Cache object metadata	To cache object metadata for ODBC connections and retain it between sessions, go to Tools Options Database ODBC and select to enable disk caching. Cached object metadata is retained until manually refreshed.
Refresh object metadata	To refresh object metadata for all ODBC connections, in the Object Explorer right-click an object and select Refresh All .
	Right-click an object and select Refresh Schema to refresh only objects in that schema.

ODBC Features

Feature	Description
Bypass schema/instance selection in SQL Editor	For ODBC connections, in the SQL Editor you can bypass selecting a schema/instance and specify this information through the script instead. This is useful if your script executes SQL against multiple schemas.
	To use this method, select I will set schema/instance in the script from the schema/instance drop-down list in the SQL Editor window. Then specify the schema/instance through your script.
	Note: When this option is selected, some code completion features, object actions, and object information tool tips are unavailable for this SQL Editor window.

™ Click here to view a video about creating connections in Toad Data Point

Configure Oracle LDAP Support

You can create Oracle Lightweight Directory Access Protocol (LDAP) connections when your Oracle client is configured for LDAP. Once the client is configured, Toad retrieves names from your LDAP server and displays them in the **Database Name** list in the Create New Connection window.

Notes:

- To connect using LDAP, you must install an Oracle client on the computer.
- Toad supports a 9i, 10g, and 11 client and the Oracle Instant client. If you want to use the instant client, you must configure it to work with Toad. See "Configure the Oracle Instant Client" on page 55 for more information.

To configure the Oracle client for LDAP

- 1. Obtain the LDAP.ORA file from your database administrator.
- 2. Copy the LDAP.ORA file to the folder where the SQLNET.ORA file for your Oracle client is located. The default folder is: ORACLE_HOME\network\admin

Open the SQLNET.ORA file and enter "(LDAP)" as the value for the NAMES.DIRECTORY_ PATH as follows:

NAMES.DIRECTORY_PATH= (LDAP)

Note: If you are using multiple naming methods, add the (LDAP) value to existing parameter values. For example, if you are using both the TNSNAMES and LDAP naming methods, add LDAP to TNSNAMES as follows:

NAMES.DIRECTORY PATH= (TNSNAMES, LDAP)

- 4. Save the SQLNET.ORA file.
- 5. Launch Toad and select File | New | Connection.
- 6. Create an LDAP connection following the procedure in <u>Create Oracle Connections</u>. In step 3, select a database on the LDAP server from the **Database Name** list. Toad retrieves the list of LDAP names from the LDAP server once per Toad session. To refresh the list, click ...

Create Oracle Connections

You can create a new connection, or connect to an existing connection from the Create New Connection window.

™ Click here to view a video about creating connections in Toad Data Point

Tip: You can configure Toad Data Point to accept connection information from Toad for Oracle.

Client Connection or Direct Connection

You can connect to your database using a native Oracle database provider in Toad using one of the following methods:

Connection Method	Advantages	Disadvantages
Client connection	Supports LDAP	Requires an Oracle client
Client tab—Uses an installed Oracle Client or Oracle Instant Client to establish a connection to the database from Toad.		Note: Toad supports Oracle clients and Oracle Instant clients using version 9i or later.
Direct connection Direct Connect tab—Uses TCP/IP to connect directly to the database.	Does not require an installed Oracle Client Recommended for connecting to Oracle 8i databases	This method only supports common data types. Some advanced Oracle object types cannot be retrieved when connecting using this method. This method does not support LDAP. (To connect using LDAP, use the Client Connection method instead.) This method cannot be used in a cross-connection query.

Note: Quest recommends using one of the methods described in this table to connect to Oracle rather than an ODBC driver. Because ODBC connectivity is generic, it is not full-featured and may not be as robust as the fully exploited native database provider.

Configure the Oracle Instant Client

The Oracle Instant client installs only those files needed to connect to your database using OCI. Because this client does not write to the registry (no ORACLE_HOMES) or add to the environmental path, you must manually

set environment variables so the client can be used with Toad.

To configure the Oracle Instant Client to work with Toad

- 1. Save the Oracle Instant Client files in any location on the computer where Toad is installed.
- 2. On your Windows desktop, right-click My Computer and select Properties.
- 3. Select the Advanced tab and click Environment Variables.
- 4. Click **New** under System Variables and complete the following:

Variable name	Variable Value	
PATH	<path client="" installed="" instant="" is="" where="">;%PATH%</path>	
	For Example: C:\Program Files\OracleInstantClient;%PATH%	
TNS_ADMIN	<path file="" installed="" is="" tnsnames.ora="" where=""></path>	

5. To use the Oracle Instant Client connection in a cross-connection query, you must also install an Oracle ODBC driver. (While the Oracle Client *full* install includes an ODBC driver, the Oracle Instant Client does not.)

Note: You cannot use an Oracle Direct Connection in a cross-connection query.

Create an Oracle Connection

To create an Oracle connection

- 1. Click an on the toolbar (ALT+F+N).
- 2. Select Oracle from the Group list box.
- 3. Review the following for additional information:

Login Tab	Description
Database name	Select the alias to use when connecting. This list displays aliases from LDAP, as well as any local tnsnames.ora file.
	When you initially open the connection dialog, Toad retrieves the list of LDAP names from the LDAP server. Toad caches this list and displays it upon
	subsequent requests, within one Toad session. To refresh the list, click 🕏.
	Note: If you do not select a database, Toad uses the ORACLE_SID for the selected home. If an ORACLE_SID value does not exist and you do not specify a database, you cannot connect.
Password	Enter the password to use when connecting.
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .
Connect as	Select whether to connect as either SYSDBA or SYSOPER if you have the appropriate permissions. Otherwise, use the default.
Schema	Select a schema if you frequently work in a different schema than the one associated with your user name.
Explain plan table	(Optional) Specify the location of an existing explain plan table to use instead of Toad automatically creating one for you when you execute a statement. This is useful if you do not have necessary permissions to create explain plan tables or want to use an existing table.

Category	Select or create a category if you want to color code Editor tabs for a specific connection. This can help differentiate between development and production databases. You can also set an option to color code the Object Explorer pane and object editor windows (Create, Alter, Drop, etc.). Click here to view a video of this feature.	
Save password	Select this check box if you plan to use this connection in a scheduled Automation script. Note: This option is disabled if Toad was installed with Prohibit saving passwords selected.	
Oracle Client Tab	Description	
Current home	Modify the Oracle home to use, if needed.	
TNSNames	Click this button to edit your local TNSNames file.	
Editor	Tip: You can press CTRL+F to open the Find/Replace window to locate entries in the TNS Names Editor. Pressing F3 locates the next entry that matches your criteria.	
SQLNET Editor	Click this button to edit SQLNET.ORA parameters. Before editing this file, you should create a backup copy. See SQLNET.ORA Profile Parameters in the Oracle documentation for more information.	
Direct Tab	Description	
SID	Enter the ORACLE_SID value for the database. This value is specified in the registry under each installed home.	
Advanced Tab	Description	
ODBC driver	If an Oracle Client is installed, the default is the Oracle ODBC driver.	
	If an Oracle Client is not installed, the default is the Microsoft Access ODBC driver.	
	Tip: You can specify the ODBC driver to use for all connections for this database provider in Tools Options Database Oracle .	

4. Click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.

Note: Go to Tools | Options | Database | Oracle to specify default options to use in Oracle connections.

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

Create Oracle Business Intelligence Connections

Toad allows you to connect to the presentation layer of an Oracle Business Intelligence Enterprise Edition (OBIEE) data source.

Note: This feature is available in the Toad Data Point Professional Edition only.

To create an Oracle Business Intelligence Enterprise connection

- 1. Click an on the Connections toolbar (ALT+F+N).
- 2. Select Oracle BI Enterprise from the Group list.

3. Enter the connection information in the Create New Connection dialog. Review the following for additional information:

URL	Enter the URL to the Oracle Business Intelligence Enterprise data source to which you want to connect.
	Note: You must include the port number in the URL as in the following examples:
	format—http:// <server path="">:<port>/analytics/saw.dll</port></server>
	example—http://server01.mycompany.com:80/analytics/saw.dll
Password	Enter the password to use when connecting.
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .
Row Limit	Select a row limit to enforce for query results.
	default = 500,000
Category	(Optional) Select an existing category or create a new one.

Note: In NoSQL and Business Intelligence connections, Toad automatically saves the password in the connections.xml file as obfuscated text, as well as in Toad. To add additional password security, use Toad's Master Password feature.

- 4. Click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.
- 5. Upon creating an initial connection, Toad automatically maps the data source objects. This process runs in the background, and until it is finished, you may experience a delay when attempting to access these objects.

Important Information about Oracle BI Connections

You must incorporate the port into the OBIEE database connection URL in the following format:

http://<server name>:<port>/analytics/saw.dll

An example URL is http://server01.mycompany.com:80/analytics/saw.dll

Tips:

- Connections are stored in the **connections.xml** file and can be found by clicking the *Application Data Directory* link in **Help | About**.
- You can specify a proxy server to use for Business Intelligence and NoSQL connections at Tools |
 Options | Database | Data Services.

Create PostgreSQL ODBC Connections

Toad Data Point allows you to easily create a connection to a PostgreSQL database using ODBC connectivity. You can connect with or without using a data source name (DSN).

Download and install the necessary ODBC driver to use for your PostgreSQL connection prior to creating the new connection in Toad.

Prerequisites

To create a successful ODBC connection, the architecture (bitness) of the driver in the specified DSN must match the architecture (bitness) of Toad. For example, 64-bit Toad requires an applicable 64-bit driver and 32-bit Toad requires an applicable 32-bit driver.

To create a PostgreSQL ODBC connection

- 1. Click an the toolbar (ALT+F+N+O).
- 2. Select *PostgreSQL* from the **Group** list box.
- 3. Use data source name
 - To create the connection using a data source, select this option to display data source names.
 - To create the connection without using a data source, clear this check box to display driver names. Select a driver and enter a server name, port number, and a database. Or select a driver and enter a **ConnectionString**.
- 4. To create a data source to use in this connection, click in the **Data Source Name** field. Then click **Add**.
 - a. Select a PostgreSQL ODBC driver from the list, and click Finish.
 - b. Specify the configuration properties required for the database in the Windows driver setup dialog. Save your settings when finished.
- 5. Specify the remaining connection properties in the Create New Connection dialog. Review the following for additional information:

Note: Specify a user that has been granted SELECT privilege in pg_catalog schema.

General	
Data source name	Select the driver or data source name you added in the previous steps.
User	Enter the user name to use when connecting.
Password	Enter the password to use when connecting.
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .
Database	Select a database or schema. Click to create a temporary connection and display available databases/schemas in the drop-down list.
Information	
Data Source Name	Displays the selected driver or data source name.
Driver	Displays the ODBC driver associated with the data source.
Advanced	
Default Table	Specify default options to use when creating a new table.
Column	Column type—Select the default data type to use when creating a table.
	Column length —For the selected column type, enter a default column length to use.
Advanced Options	Block Cursor Size —Specify the number of rows to return in a single fetch of data from the result set.
	Disable multi-threading —Multi-threading is disabled by default. Enable multi-threading only if supported by the driver. Multi-threading can improve performance, but can also result in unpredictable behavior if not supported by the driver.
	Default: Selected
Category	(Optional) Select an existing category or create a new one.

6. Click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

Considerations and Limitations for PostgreSQL ODBC Connections

Consideration/Limitation	Details
User must have pg_catalog privilege	To use a PostgreSQL ODBC connection in Toad, the connecting user must have the SELECT privilege in the pg_catalog schema. This privilege is required as it enables viewing PostgreSQL objects in the Object Explorer, as well as other features and functionality in Toad.
	If you attempt to connect using a user account that does not have the SELECT privilege in the pg_catalog schema, you will encounter the following error message:
	"User's privileges are insufficient to connect using Toad."

Tips for Working with ODBC Connections

Tip	Description
Filter DSN by bitness	To filter Data Source Names displayed in the New Connection dialog by the bitness of Toad, go to Tools Options Database ODBC .
Cache object metadata	To cache object metadata for ODBC connections and retain it between sessions, go to Tools Options Database ODBC and select to enable disk caching. Cached object metadata is retained until manually refreshed.
Refresh object metadata	To refresh object metadata for all ODBC connections, in the Object Explorer right-click an object and select Refresh All .
	Right-click an object and select Refresh Schema to refresh only objects in that schema.

ODBC Features

Feature	Description
Bypass schema/instance selection in SQL Editor	For ODBC connections, in the SQL Editor you can bypass selecting a schema/instance and specify this information through the script instead. This is useful if your script executes SQL against multiple schemas.
	To use this method, select I will set schema/instance in the script from the schema/instance drop-down list in the SQL Editor window. Then specify the schema/instance through your script.
	Note: When this option is selected, some code completion features, object actions, and object information tool tips are unavailable for this SQL Editor window.

□ Click <u>here</u> to view a video about creating connections in Toad Data Point

Create Salesforce Connections

Toad allows you to connect directly to Salesforce.com, one of the business intelligence data sources supported by Toad. Toad supports authentication using either a Salesforce security token or single sign-on with your corporate credentials.

Note: This feature is available in the Toad Data Point Professional Edition only.

To create a Salesforce connection

- 1. Click an on the Connections toolbar (ALT+F+N).
- 2. Select Salesforce from the Group list. The Create New Connection dialog opens.
- 3. To create a Salesforce connection using your Salesforce email login, select the Credentials tab.
 - a. Enter the connection information. Review the following for additional information:

URL	Enter the Salesforce.com URL to which you want to connect. Note: An example is https://login.salesforce.com.
Username	Enter your email login. Note: You must have a Salesforce email login to create this type of connection to Salesforce.com from Toad.
Password	Enter the password to use when connecting. Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security.
Security token	Enter your Security Token provided by Salesforce. Note: You must have a Salesforce security token to create this type of Salesforce.com connection from Toad. See "Important Notes about Salesforce Connections" on page 62 for more information.
Category	(Optional) Select an existing category or create a new one.

- b. After entering the connection information, click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.
- 4. To create a Salesforce connection using your corporate credentials (single sign-on), select the **Corporate Credentials** tab.
 - a. Enter your company's custom Salesforce URL. An example is https://company.my.salesforce.com or http://salesforce.servername.

Note: If you authenticate and request login to Salesforce through your company's server (e.g., http://salesforce.servername), you may need to contact your IT department to obtain the full URL to enter in this step.

b. If the Salesforce log-in page displays, enter your corporate credentials (user name and password) and click **Log in to Salesforce**.

Note: The Salesforce log-in page does not display when authenticating through your company's server.

- c. The Salesforce consent page displays. Click Allow to allow Toad access to your Salesforce data.
- 5. Upon creating an initial connection, Toad automatically maps the data source objects. This process runs in the background, and until it is finished, you may experience a delay when attempting to access these objects.

Note: In NoSQL and Business Intelligence connections, Toad automatically saves the password in the connections.xml file as obfuscated text, as well as in Toad. To add additional password security, use Toad's Master Password feature.

Manual Single Sign-On

Use the manual single sign on method when you want to create a Salesforce connection using your corporate credentials but you are having problems accessing Salesforce from Toad, for example, if Toad does not have access to the Internet.

Create a Salesforce.com connection - manual single sign-on

- 1. In the Create New Connection dialog, select the Manual Single Sign On tab.
- 2. Log-in to your Salesforce.com account using your browser. After you log-in, copy the full URL from the browser's address bar and paste it into the text box under **Step 1** in the Manual Single Sign On tab.
- 3. A URL appears in the text box under **Step 2**. Copy this URL and then paste it into the address bar in your browser.
- 4. The Salesforce consent page displays. Click Allow.
- 5. A page displays containing the authorization code. Copy the code and paste it into the text box under **Step 3**. Then click **Connect**.

Reauthorizing a Connection (If Using Corporate Credentials)

If you encounter an error message when attempting to connect to Salesforce using your corporate credentials connection, Toad's authorization (access) to Salesforce may be lost. Use the following procedure to re-establish authorization for the connection.

To Reauthorize

- 1. In the Navigation Manager, disconnect from the connection. You must disconnect before you can re-authorize.
- 2. After disconnecting, right-click the connection and select **Properties**.
- 3. In the Connection Properties dialog, click **Reauthorize** in the Corporate Credentials tab.
- 4. If the Salesforce log-in page displays, re-enter your corporate credentials.

Note: The Salesforce log-in page does not display when authenticating through your company's server.

Important Notes about Salesforce Connections

- If you connect to Salesforce using a proxy, you must define the proxy server in Toad.
- A Security Token is required to log on to Salesforce.com from Toad, using your Salesforce email login.
- For information about how to generate a new security token, see the Salesforce documentation at https://login.salesforce.com/help/doc/en/user security token.htm.
- You may need to have your IP address included in your organization's list of trusted IP addresses. For
 more information, see the Salesforce documentation at
 http://www.salesforce.com/us/developer/docs/api/Content/sforce api concepts security.htm.

Tips:

- Connections are stored in the **connections.xml** file and can be found by clicking the *Application Data Directory* link in **Help | About**.
- You can specify a proxy server to use for Business Intelligence and NoSQL connections at Tools |
 Options | Database | Data Services.

Create SQL Server and SQL Azure Connections

You can create a new connection, or connect to an existing connection from the Create New Connection window. See "Troubleshoot SQL Server® Issues" on page 82 for more information about troubleshooting connection issues.

■ Click here to view a video about creating connections in Toad Data Point

Note: For SQL Azure connections:

- To be able to utilize majority of Toad functionality please grant VIEW DEFINITION on the SQL Azure databases you want to work with.
- You can login to Windows Azure Platform by selecting **Tools | Cloud Computing | SQL Azure Portal** and providing your credentials.
- Make sure that no Azure firewall rule restricts your IP address from having access to Azure server. See "Create and Alter Azure Firewall Rules" in the online help for more information.

To create a new connection

- 1. Click an on the toolbar (ALT+F+N).
- 2. Select Microsoft SQL Server or Microsoft SQL Azure from the Group list box.
- 3. Review the following for additional information:

Login Tab	Description
Server name	Enter the name of the server to use when connecting.
	Click to display any servers running SQL Server that are currently active on the network.
	Notes:
	 For SQL Azure connections, enter InstanceName.database.windows.net in this field.
	 For named instances, enter the MachineName\InstanceName in this field.
Authentication	Select the type of authentication to use for this connection.
	You can connect to an Azure SQL database with Active Directory authentication. Client configuration is required. See https://docs.microsoft.com/en-us/azure/sql-database/sql-database-aad-authentication-configure-gour-client-computers
	Note: You cannot create a SQL Azure connection using Windows Authentication.
Password	Enter the password to use when connecting.
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .
Category	Select or create a category if you want to color code Editor tabs for a specific connection. This can help differentiate between development and production databases. You can also set an option to color code the Object Explorer pane and object editor windows (Create, Alter, Drop, etc.). Click here to view a video of this feature.

Encrypt connection	Select this option to enable encryption for the current connection provided that the certificate has been already installed on the server.
Advanced Tab	Description
Network protocol	Select one of the following:
	Shared Memory
	TCP/IP
	Named Pipes
	Note: When establishing Named Pipes connection "Poll service status in connection list" option should be cleared.
Parameter Name/Value	You can add parameters to the connection. Toad includes the Application Name parameter with value <i>Toad Data Point</i> by default.
OBDC driver	Select an ODBC driver to use for this connection when creating cross-connection queries.
	Tip: You can specify the ODBC driver to use for all connections for this database provider in Tools Options Database SQL Server .

4. Click **Connect** to save the connection and immediately connect to the database.

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Click Save to save the connection without connecting to the database.

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

To import connections (including Central Management Server connections)

- 1. Click 4.
- 2. Specify the location where the connections currently reside.

Note: Review the following for additional information on CMS connections:

- To import CMS connections, select a server from the list where the CMS is registered. The connection to this SQL Server instance should be created beforehand.
- CMS is available beginning with Microsoft SQL Server 2008.
- User should have an appropriate login (Windows Authentication and grant to connect to selected server are required) created on the server to which he connects via CMS.
- 3. Select the connections to be imported.

Create SQL Server Analysis Services Connections

Through Toad you can create a connection to a Microsoft SQL Server Analysis Services (SSAS) data source. An SSAS connection in Toad allows you to access the multi-dimensional cubes from the data source.

Note: This feature is available in the Toad Data Point Professional Edition only.

Configure HTTP Access

Before connecting to SQL Server Analysis Services from Toad Data Point, you must configure the IIS Web server (to be used for connecting) for HTTP access to SSAS. See the following instructions from Microsoft: http://msdn.microsoft.com/en-us/library/gg492140(v=sql.105).aspx.

Connect to SQL Server Analysis Services

To create a SQL Server Analysis Services connection

- 1. Click an on the Connections toolbar (ALT+F+N).
- 2. Select Microsoft SQL Server Analysis Services (SSAS) from the Group list.
- Enter the connection information in the Create New Connection dialog. Review the following for additional information:

URI	Enter the URL for the Analysis Services data source to which you want to connect.
	Note: Toad connects to Analysis Services via http access. The URL should have the following format:
	format—http:// <server path="">/msmdpump.dll</server>
	example—http://server01/olap/msmdpump.dll
Database	Enter the name of the Analysis Services database to which you want to connect.
Username	Enter the user name for the user account to be used in this connection.
Password	Enter the password for the user account specified in <i>Username</i> .
Category	(Optional) Select an existing category or create a new one.

Note: In NoSQL and Business Intelligence connections, Toad automatically saves the password in the connections.xml file as obfuscated text, as well as in Toad. To add additional password security, use Toad's Master Password feature.

- 4. Click **Connect** to connect immediately and also save the connection information. Optionally, you can click **Save** to save the connection without connecting.
- Upon creating an initial connection, Toad automatically maps the data source objects. This process runs in the background, and until it is finished, you may experience a delay when attempting to access these objects.

Tips:

- Connections are stored in the **connections.xml** file and can be found by clicking the *Application Data Directory* link in **Help | About**.
- You can specify a proxy server to use for Business Intelligence and NoSQL connections at Tools |
 Options | Database | Data Services.

Create SAP Connections

You can create a new SAP IQ, SAP SQL Anywhere, or SAP ASE connection, or connect to an existing connection from the Create New Connection window. See "Troubleshoot SAP Issues" on page 83 for more information about troubleshooting connection issues.

■ Click here to view a video about creating connections in Toad Data Point

Note: This topic focuses on information that may be unfamiliar to you. It does not include all step and field descriptions.

To create an SAP connection

- 1. Click an on the toolbar (ALT+F+N).
- 2. Select SAP ASE, SAP IQ, or SAP SQL Anywhere from the Group list.
- 3. Enter the login information. Review the following for additional information:

Login Tab	Description
Host	Enter the host name for the connection.
	Note: This field is only available when you select an SAP IQ or SAP SQL Anywhere connection.
Port	Enter the number of port.
Password	Enter the password to use when connecting.
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .
CharSet	Enter the client character set such as UTF-8 in this field if it differs from the default character set. This helps you avoid connection issues.
	Notes:
	This field is not case sensitive.
	This field is only available when you select an SAP ASE connection.
Category	Select or create a category if you want to color code Editor tabs for a specific connection. This can help differentiate between development and production databases. You can also set an option to color code the Object Explorer pane and object editor windows (Create, Alter, Drop, etc.). Click here to view a video of this feature.
Options Tab	Description
Language	(SAP ASE only) Set language for your connection to SAP ASE to override your Region Format settings in Control Panel . If the field is left empty the default language is used. Default is us_english.
Kerberos	Select whether you want to use Kerberos when connecting. Default is No.
Encryption	Select None if you do not want to use encryption during connecting. Select TLS to use the highest available encryption when connecting. Indicate the path to your certificate file if you want to use TLS encryption.
Advanced Tab	Description
ODBC driver	Select an ODBC driver to use for this connection when creating cross-connection queries.
	Tip: You can specify the ODBC driver to use for all connections for this database provider in Tools Options Database Oracle .

4. Click **Connect** to save the connection and immediately connect to the database.

or

 $\label{lem:connection} \textbf{Click Save} \ \text{to save the connection without connecting to the database}.$

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

Create SAP HANA Connection

To create an SAP HANA connection

- 1. Click an on the toolbar (ALT+F+N).
- 2. Select **SAP HANA** from the **Group** list box.
- 3. Specify the connection properties in the Create New Connection dialog. Review the following for additional information:

General tab	Description
Host	Enter IP address (or the master host name).
	Note : Enter the master host name. Host names for distributed systems are determined automatically. If the specified host is not available, the connection is established through one of the other hosts.
Instance	Enter a two-digit instance number.
Number	Note : The communication port number is defined by: n <instance> xy, where n is either 3 or 5, <instance> is a two-digit number representing the instance number of the SAP HANA appliance, and xy represents a consecutive number. Toad users only enter the instance number.</instance></instance>
Type of	Select:
Authentication	Authentication by the current operating system user - connect using your operating system authentication
	Authentication by the database user - connect using your database user authentication
User	Enter the user name to use when connecting.
Password	Enter the password to use when connecting.
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .
Mode	Select the database mode. SAP HANA supports numerous isolated databases in a single HANA system. Although each database in a multiple-container system is isolated, cross-queries can be performed and all databases share the same installation, resources, and administration.
	Single-container — Select for single-container systems. These can be converted to multiple-container systems.
	Multiple-container — Select for multiple-container systems. These systems always have one system database, which is used for administration, and any number of tenant databases.
	Select whether you want to connect to the System or Tenant database . Users connect to a specific tenant database within the system using its database name.
Current Schema	Select a database schema. Click to create a temporary connection and display available schemas in the drop-down list.
Category	Select or create a category if you want to color code Editor tabs for a specific connection. This can help differentiate between development and production databases. You can also set an option to color code the Object Explorer pane and object editor windows (Create, Alter, Drop, etc.).
	□ Click here to view a video of this feature.

Options tab	Description
Isolation Level	(Optional) Select the default isolation level for this connection.
Lifetime	(Optional) Specify a maximum value for connection lifetime by entering the length of time in seconds. The default value is 0, which specifies no maximum.

4. Click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.

Note: An SAP HANA ODBC driver is installed along with Toad Data Point and is required if using a HANA connection in a cross-connection query.

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

Create Teradata Connections

Toad allows you to create a full-featured, native Teradata connection. This type of connection provides complete Query Builder, Query Editor, and Database Explorer functionality.

Notes:

- You must have a Teradata .NET Data Provider installed before you can create a Teradata connection.
- To use a Teradata connection in a cross-connection query, you must have a Teradata ODBC driver installed.

To install the Teradata data provider

» Download and install the Teradata .NET Data Provider from the Teradata Web site. Use the version supported by your database version.

To create a Teradata connection

- 1. Click an on the Connections toolbar (ALT+F+N).
- 2. Select Teradata from the Group list.
- 3. Enter the connection information in the Create New Connection dialog. Review the following for additional information:

Login	
Server name	Enter the name of the server hosting the database to which you want to connect.
Use Single Sign On	Select if the user is using a single sign-on authentication system.
Password	Enter the password to use when connecting.
	Tip: After connecting, you can set a master password to further secure your connection in Tools Options Environment Security .
Session mode	Displays the session mode, which is always <i>Teradata</i> in a Toad Teradata connection.
Default database	(Optional) Enter a default Teradata database for the connection.

Category	(Optional) Select an existing category or create a new one.
Advanced	
Mechanism	(Optional) Select an authentication mechanism from the list.
Parameter	(Optional) Enter the parameters required by the selected authentication mechanism. See your system administrator for these values.
Account string	(Optional) Enter a new account string.
Character set	Select a character set.
	Note: When querying or viewing data in a column defined with GRAPHIC or CHARACTER SET GRAPHIC data type, you must specify a Character set of UTF-16 for the session.
Use data encryption	Select if using data encryption.
Response buffer size	Specify a Response Buffer Size (in bytes). This allows you to govern the number of rows returned in a single response. To increase the number of rows per response, increase the response buffer size. This strategy might help to improve performance with larger data sets. The default value in Toad is set to the maximum, 1040000 bytes.

4. Click **Connect** to connect immediately while saving the connection information. Optionally, click **Save** to save the connection without connecting.

Tip: Connections are stored in the connections.xml file and can be found by clicking the *Application Data Directory* link in **Help | About**.

To install a Teradata ODBC driver

» Download and install a Teradata ODBC driver from the Teradata Web site. For a list of supported Teradata ODBC drivers, please see the *Release Notes* for your version of Toad Data Point.

Notes:

- Toad does not support the Teradata multi-statement request.
- You can specify which Teradata Data Directory views to use, X views or Non-X views, in **Tools | Options | Database | Teradata**.

Troubleshoot Connections

Troubleshoot Access Issues

Review the following solutions to help troubleshoot Access issues pertaining to missing functionality and object information and other problems in Toad.

See "Create Access Connections" on page 31 for more information about Access connections.

Missing Functionality and Object Information

Issue	Cause/Solution
Some queries display in the View tab of the Object Explorer, but do not display in the Query tab.	The Access ODBC driver handles saved queries in the following manner: • If the stored query does not contain parameters, it is treated as a view and displays in the View tab. • If the stored query contains parameters, it is treated as a stored procedure and displays in the Query tab.
Primary key information is unavailable.	The Microsoft Access ODBC driver does not return primary key information for databases. However, in some cases, Toad can obtain this information through additional methods.

Other Issues

Issue	Cause/Solution
A delay occurs between writing a value to a database via one connection and seeing the updated value via another	This delay is the default when you are writing and reading data between two different Jet connections. The delay occurs even if the two connections reside in the same client process.
connection.	Solution:
	Use a single connection when updating data.

How to Connect to Apache Hive Using Kerberos Authentication

Toad allows you to connect to a Hive data warehouse system. Apache Hive is one of the NoSQL data sources supported by Toad. Toad allows you to connect to Hive using Kerberos authentication.

Note: This feature is available in the Toad Data Point Professional Edition only.

To create a Hive connection

- 1. Click on the Connections toolbar (ALT+F+N).
- 2. Select Apache Hive from the Group list.
- 3. Enter the connection information in Create New Connection. Select HiveServer2 in Server Type
- 4. Select Kerberos in Authentication | Authentication
- 5. Review the following for additional information:

Username	Enter the user name to use for this connection in the following format: user@REALM or domain\user
Hive host realm	Enter the Kerberos realm of the HiveServer2 host.
Hive host FQDN	Enter the fully-qualified domain name (FQDN) of the HiveServer2 host. Note: If necessary, contact your IT department to obtain this information.
Service name	Enter the service name of the Hive server. The default is hive.

To set User name

Toad Data Point needs to use full name in Kerberos Key Distribution Center (KDC) in the following format:

Userid/host@realm

Note: Please contact your Kerberos/IT administrator for more info on your userid and host name

Before you can successfully connect to Hive using Kerberos authentication, the Toad client computer must have a Kerberos Key Distribution Center (KDC) address entry for the Hive host realm. To define the KDC entry, use the following procedure.

You only need to run this command once for the given realm. To confirm the setting, enter the following command: ksetup. This command should return both the name of the Hive host realm and the KDC name you specified.

Open a Windows Command Prompt as Administrator and enter the following command:

```
ksetup /addkdc <REALM> <KDC name>
```

Where <REALM> is the name of the Hive host realm and <KDC name> is the DNS name of the computer running the KDC service for the given realm. ksetup is the Kerberos setup tool in Windows.

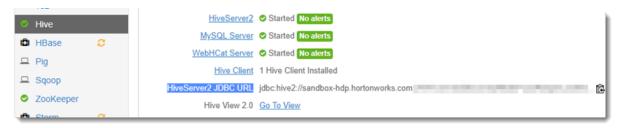
Run the command ksetup again to confirm the realm has been added.

To check the port and hive setting in Hive server

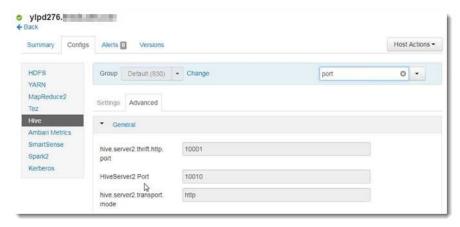
These settings may differ in each Hadoop release package:

Hortonworks

Toad Data Point does not use JDBC for connecting to Hive, so do not use HiveServer2 JDBC URL here. Do not use the URL and port information below in Toad Data Point HIVE connection.



Enter "port" in the filter search box to know the hive transport mode and port configuration in this Hive server.



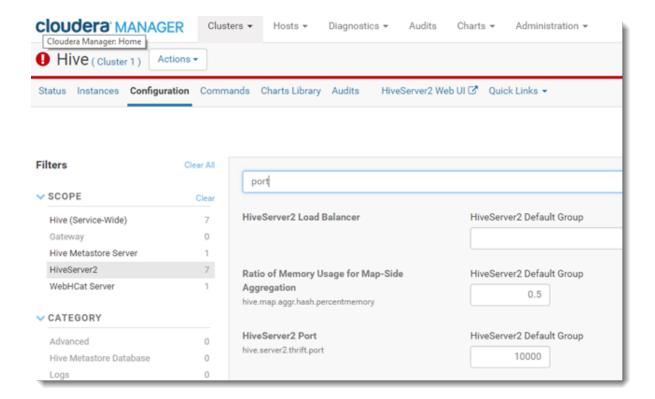
If hive.server2.transport == HTTP, then check "http mode" in Toad, and port number in Toad should use 'hive.server2.thrift.http.port'.

If hive server 2. transport == binary, then uncheck "http mode" in Toad, and port number in Toad Data Point should use "Hive Server 2 Port".

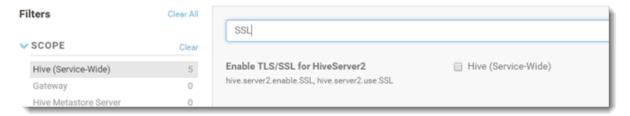
Note: HDP does not use SSL when Kerberos authentication is enabled.

Cloudera

Enter "Port" in the search box to check the HiveServer2 Port in CDH because CDH does not support using the Thrift HTTP mode to connect to HiveServer2.



Enter "SSL" in the search box to check if the SSL has been enabled. By default SSL is not used.



Troubleshoot Excel[®] Issues

Review the following to help troubleshoot and solve issues involving Excel files.

See "Create Excel Connections" on page 43 for more information about Excel connections.

Excel Connections

Issue	Cause/Solution
Tables are limited to 256 columns and 65536 rows.	This is a known limitation with Excel worksheets.
Column names longer than 64 characters are truncated and the remaining characters display as null.	This is a known limitation with Excel worksheets.
Columns that include text values or special characters as	When you connect to Excel, the driver automatically scans the first eight rows in a column and applies the data type used in a majority of those rows

Issue	Cause/Solution
part of a numeric value, as well as entries with straight numeric values, result in one of the value sets displaying as null.	to all rows in the column. Any rows that do not meet the majority data type display as null values. Solution 1: Reformat worksheet column and values as text. 1. Open the worksheet in Excel.
	2. Format the column that contains mixed data types as <i>Text</i> .
	 You can now connect to this spreadsheet from Toad without any null values displayed.
	Solution 2: Create an ODBC connection.
	You can force the ODBC driver to read all rows as <i>Text</i> to avoid null values; however, this can result in issues if you attempt to insert data. 1. Open the Create New Connection window and select <i>ODBC</i> from the Group list.
	Complete the fields as described in Create ODBC Connections.
	3. Enter "IMEX=1", in quotations, in the ExtraParameters field.
	4. Click Connect.
Column names that contain an exclamation point (!) are not supported.	The exclamation point character has a special meaning in Excel. If a column name contains an exclamation point, it is internally converted to a dollar sign (\$) character.
Tables cannot be altered.	Tables cannot be altered when the Excel connection is Read-Only.
	Solution: Deselect Read-Only Connection in the Connection Properties dialog.
The Primary Keys and Foreign Keys tabs are blank in the Database Explorer.	Excel is a spreadsheet, and does not support primary and foreign keys so these tabs are always blank.
Indexes cannot be created or dropped.	The Excel ODBC driver does not support this functionality.
Unable to query Excel files without named ranges (regions).	The worksheet you are querying does not have named ranges (regions) defined. Solution:
	You can query the worksheet from the Editor by entering a dollar sign (\$) followed by a cell range to limit the results similar to the following statement:
	Select * from (MyWorksheet\$A1:C10) You can also query the entire worksheet by entering a dollar sign (\$) after
	the worksheet name. However, this may also return the worksheet's empty rows and columns.
Attempting to connect to or create a new Excel connection results in No user tables could be found message.	The Excel file does not have named ranges (regions) defined. If you click OK to close the message, the new connection is created, but no user tables display in Object Explorer. (System tables are displayed, if you selected to show these.)
	Solution 1: In the Excel file, create named ranges.
	Solution 2: Ask Toad to automatically create named ranges.
	Disconnect from the file.
	 In Navigation Manager, right-click the file and select Properties Advanced.
	3. Select Automatically create ranges.
	The next time you connect, Toad automatically creates named

Issue	Cause/Solution
	ranges, which are then displayed as tables.
	See "Create Excel Connections" on page 43 for more information.
Unable to query data using an empty string or null value.	The underlying data format cannot differentiate between an empty string and null data, so a query with a search condition that contains an empty string does not match any empty strings in the table. This occurs because the empty string is treated as a null value, and a null value never matches anything, not even another null value.
Unable to update or delete rows in a table.	The Excel ODBC driver does not support this functionality. While it is possible to update values, DELETE statements do not remove a row from a table. Basically, you can only insert data in a table.
Attempting to insert data results in Cannot expand named range error.	This error occurs if you have more than one named range (region) in the same worksheet, and the named ranges are not separated by blank rows. Solution 1: You must add blank rows between named ranges. Add as many blank rows as you have new records to insert. Solution 2: Include only one named range in each worksheet.

Working with Excel Files

Issue	Cause/Solution
Microsoft Excel worksheet row and column limits	When exporting to Excel, be aware that Excel worksheets have limits for maximum number of rows and columns supported.
	See Microsoft Excel specifications and limits for more information.

Opening Excel Files in Toad Document Window

Issue	Cause/Solution
Excel menus do not display when you open	The Toad document window cannot display all Excel menus.
Excel files in a Toad document window.	Solution:
	Right-click the Excel toolbar and add the equivalent toolbar for the missing menu or functionality.
When two or more instances of Excel are open in Toad document windows, toolbars are active for only one instance.	Toad document windows support one Excel instance at a time. Opening more than one Excel file disables the Excel toolbars for the additional files.
	Solution:
	Open only one Excel file at a time.

Troubleshoot DB2 LUW Issues

Review the following solutions to help troubleshoot DB2 LUW issues pertaining to Toad installation and database connections.

Installation Issues

The following table describes issues related to installing Toad for DB2.

Issue	Cause/Solution
System.IO.FileNotFoundException - File or assembly name DB2AdminWrapper, or one of its dependencies was not found	You are not a member of the DB2ADMIN or DB2USERS group. To install Toad, you must be a member of either group. Solution: Ensure that you have been added to one of these groups.
Error: "Could not load file or assembly 'IBM.Data.DB2.9.1.0, Version=9.1.0.2, Culture=neutral, PublicKeyToken=7c307b91aa13d208' or one of its dependencies. The system cannot find the file specified."	You installed a commercial version of Toad for DB2 after uninstalling the freeware version. Solution: You must remove run time information for the freeware version of Toad from the .NET system.config file.
	To remove run time information
	1. Exit Toad.
	 Navigate to the following .NET framework directory: C:\WINDOWS\Microsoft.NET\ Framework\v2.0.50727\ CONFIG
	Create a backup copy of the system.config file.
	Open the system.config file in Notepad.
	Locate the <runtime> tag delete everything between the runtime tags (including <runtime> and </runtime>).</runtime>
	6. Save the file.
	7. Restart Toad.

Connection Issues

Issue	Cause/Solution
ERROR [08001] [IBM] SQL1336N The remote host was not found. SQLSTATE=08001	You are attempting to connect to a database version that is not supported in Toad. Solution: Review the list of supported databases in the Release Notes or
	Installation Guide.
ERROR [58031] [IBM] SQL1031N The database directory cannot be found on the	Catalog entries have not been imported or defined for the connection.
indicated file system. SQLSTATE=58031	Solution:
	See "Configure DB2 Client Connections" on page 34 for more information to determine the best method for cataloging a database.
"The type initializer for 'IBM.Data.DB2.DB2Connection' threw an exception." or "SUCCESS - unable to allocate an environment handle."	A settings file might be corrupt.
	Solution:
	Rename your local settings directory so a new one can be
	recreated.
	To rename your local setting directory
	1. Exit Toad.
	2. Novince to the following pattings dispersent
	Navigate to the following settings directory:

Issue	Cause/Solution
	 Windows Server 2008, Windows 7— C:\Users\username\AppData\ Roaming\Quest Software\
	Rename the Toad for DB2 version# folder to "Toad for DB2 OLD".
	Restart Toad and try to connect.
	Notes:
	Make sure you can view hidden folders in Windows Explorer.
	To navigate to this directory quickly, click the Application Data Directory link in the About dialog (Help About).

Other Issues

Issue	Cause/Solution
Unable to capture Container Information in DB2 for LUW Multi-Partition Databases	Certain Toad functions require that the DFT_MON_BUFPOOL database manager configuration parameter be set to ON to capture information on containers used in DB2 for LUW databases. Additionally, to capture container information across all partitions in a multi-partition database, the snapshot monitor requires that all database partitions be active. To activate all database partitions (and keep them active), execute the DB2 command ACTIVATE DATABASE real_database_name on the server before connecting Toad to the database. See your IBM DB2 for Linux, Unix, and Windows documentation for more information about this command.

Troubleshoot DB2 z/OS Issues

Review the following solutions to help troubleshoot DB2 z/OS issues in Toad.

Installation Issues

Issue	Cause/Solution
Error: "Could not load file or assembly 'IBM.Data.DB2.9.1.0, Version=9.1.0.2, Culture=neutral, PublicKeyToken=7c307b91aa13d208' or one of its dependencies. The system cannot find the file specified."	You installed a commercial version of Toad for DB2 after uninstalling the freeware version. Solution: You must remove run time information for the freeware version of Toad from the .NET system.config file.
	To remove run time information
	1. Exit Toad.
	 Navigate to the following .NET framework directory: C:\WINDOWS\Microsoft.NET\ Framework\v2.0.50727\ CONFIG

Issue	Cause/Solution
	Create a backup copy of the system.config file.
	4. Open the system.config file in Notepad.
	Locate the <runtime> tag delete everything between the runtime tags (including <runtime> and </runtime>).</runtime>
	6. Save the file.
	7. Restart Toad.

Connection Issues

Issue	Cause/Solution
ERROR [08001] [IBM] SQL1336N The remote host was not found. SQLSTATE=08001	You are attempting to connect to a database version that is not supported in Toad. Solution:
	Review the list of supported databases in the Release Notes or Installation Guide.
ERROR [58031] [IBM] SQL1031N The database directory cannot be found on the	You do not have any catalog entries defined for the connection. Solution:
indicated file system. SQLSTATE=58031	See "Configure DB2 Client Connections" on page 34 for more information to determine the best method for cataloging a database.
ERROR [42501] [IBM][DB2] SQL0551N "UserName" does not have the privilege	You do not have SYSADM privileges for the DB2 for z/OS subsystem.
to perform operation "SELECT" on object "SYSIBM.SYSSTMT". SQLSTATE=42501	Solution: Ensure that you are granted SELECT permissions on the DB2
	catalog tables.
ERROR [] [IBM] SQL1460N The environment variable "SOCKS_NS" required for SOCKS server name resolution is not defined or not valid.	When using the Time-Sharing Option (TSO) to connect, the user ID, port number, or IP address entered may be incorrect. Solution:
	Ensure that you use the following for TSO connections:
	DB2 user ID for the DB2 subsystem
	 Port number that DB2 listens on, for remote connections, via the DB2 DDF address space
	IP address for the z/OS subsystem
ERROR [56038] [IBM][DB2] SQL0969N There is no message text corresponding to SQL error "-4700" in the message file on this workstation.' when connecting to compatibility mode database.	In general, Toad does not support a z/OS subsystem running in Compatibility mode.
	Solution:
	If possible, switch the subsystem's operating mode to Full Function mode.
-or- After connecting, some objects do not display properly or some functionality does not work as designed.	If this is not possible, Toad now provides a message when you connect to subsystem, informing you of that the subsystem is running in compatibility mode and that some features might not be available.

Missing Functionality or Object Information

Issue	Cause/Solution
Unable to browse databases in DB2 for z/OS 8 or later.	The DB2 installation job DSNTISG defines a set of DB2 procedures that the ODBC driver uses. The installation assigns these procedures (namely, those beginning with SYSIBM.SQL*) to a specific Work Load Manager (WLM) environment, which currently might not exist or be defined properly.
	Solution:
	Be sure that you have correctly set up and enabled the WLM environment to which the procedure definitions point.
Cannot edit data in compatibility mode.	In compatibility mode, the ODBC driver does not return enough information for the CommandBuilder to correctly generate update or insert statements.
	Solution:
	No solution exists. However, when you connect to a subsystem running in compatibility mode, Toad now provides a message, informing you of this condition and warning you that some features might not be available.

Other Issues

Issue	Cause/Solution
Poor performance when browsing DB2 for z/OS objects in Toad. Indexes are populated slowly.	User-defined indexes on specific system catalog tables can improve performance when you are browsing DB2 for z/OS objects in Toad. The following link contains the DDL for indexes that can optimize Toad performance on your DB2 for z/OS subsystem. Keep in mind that the creation of these indexes is a recommendation only. The indexes can have different results in different environments, depending on the number of DB2 objects and the amount of data involved. To create these indexes, edit and run the DDL contained in the following file: ToadDB2zOSIndexes.txt Additionally, if the schema drop-down lists in the Object Migration wizard populate slowly, consider creating an index on the SCHEMA and CREATOR columns in the catalog table for each object type. Here is a list of some of the object-type tables: SYSIBM.SYSSYNONYMS SYSIBM.SYSSEQUENCES SYSIBM.SYSTABLES SYSIBM.SYSTABLES SYSIBM.SYSTABLES SYSIBM.SYSTRIGGERS SYSIBM.SYSTRIGGERS SYSIBM.SYSTRIGGERS
Encountering the S378 Abend when running IBM DB2 z/10 subsystem in Conversion mode with older versions of Toad.	This issue appears because the Toad z/OS Component tries to reference the QUEST.QC200ZPARM function. Solution: DROP the QUEST.QC200ZPARM function from your DB2 z/OS 10 subsystem. This will eliminate the possibility of the function being called into the WLM environment procedure and causing

Issue	Cause/Solution
	the S378 abend.
	We do not recommend that you to just STOP the QUEST.QC200ZPARM function on the mainframe side, without actually dropping it, because that may case Toad or the batch process (QCEXEC – remote job execution) to hang. Dropping the QUEST.QC200ZPARM function is recommended.

Troubleshoot Informix Issues

Review the following solutions to help troubleshoot Informix issues in Toad.

Issue	Cause/Solution
Unable to view all available databases.	The InformixODBC driver does not return information about every available database.

Troubleshoot MySQL Issues

Review the following solutions to help troubleshoot MySQL connection issues pertaining to database connections and missing functionality or object information in Toad.

Connection Issues

Issue	Cause/Solution
"InvalidCastException" error when	This is a known issue in MySQL.
connecting to MYSQL 4.1.14-nt database	Solution:
	Review the known issue and download a patch from: http://bugs.mysql.com/bug.php?id=12771
"System.IO.DirectoryNot	Solution:
FoundException"error occurs each time you attempt to connect after installing Toad into a directory other than the default directory.	1. Exit Toad.
	 Locate the MySQL.xml file in the C:\Documents and Settings\username\Local Settings\ Application Data\Quest Software\ Toad for MySQLversion\ ModuleSettings
	3. Rename or delete the MySQL.xmI file.
	4. Restart Toad.

Missing Functionality or Object Information

Issue	Cause/Solution
Views tab in Object Explorer is unavailable when connecting to MySQL using the ODBC driver	You are attempting to connect using the 3.51 ODBC driver. This driver is hard-coded to reply that the database does not support views because it needs to connect to MySQL databases prior to version 5.

Issue	Cause/Solution
	Solution:
	Use the native MySQL provider included in Toad.
Using a MySQL ODBC connection in a cross-connection query results in an error	Attempting to execute a cross-connection query using a MySQL ODBC connection (not a native connection) results in the following error: "The table can not be mapped."
	Solution:
	To use a MySQL ODBC connection in a cross-connection query, you must specify a database for the connection.
	To specify a database for an existing MySQL ODBC connection
	In the Connection/Navigation Manager, right-click the existing MySQL ODBC connection and select Properties.
	Click beside the Data source name drop-down list. The ODBC Data Source Administrator dialog opens.
	 On the User DSN tab, select (highlight) the connection's MySQL ODBC driver and then click Configure. The MySQL ODBC Configuration dialog displays.
	4. Select a database from the Database list.
	Notes:
	 Specifying a database using the Connection Properties Database field does not result in a solution. You must follow the procedure above.
	You can repeat this procedure at any time to specify a different database.

Troubleshoot Oracle Issues

Review the following solutions to help troubleshoot Oracle connection issues pertaining to database connections and missing functionality and object information in Toad.

Connection Issues

Review the following to help troubleshoot Oracle:

Issue	Cause/Solution
Attempting to connect when Oracle Instant Client is installed results in a System.NullReferenceException error	Solution: In order to connect using the Oracle Instant Client, the directory for the Instant Client must be included in the environmental path, or you must copy the client files for the instance to the root install directory of Toad Data Point.
	You can also connect to the database without using an Oracle client or TNSNames file by selecting the Direct tab in the Create New Connection window.
An error occurs when attempting to connect to Oracle Rdb using an ODBC	Toad does not support Oracle Rdb at this time.

Issue	Cause/Solution
driver	
Attempting to connect to Oracle 18c results in the error ORA-28040: No matching authentication protocol	SQLNET.ALLOWED_LOGON_VERSION has been deprecated. Upgrade your Oracle client or set the parameter value to 12c.

Missing Functionality and Object Information

Issue	Cause/Solution
Some schemas are not available from the Schema drop-down list in the Object Explorer.	The Oracle ODBC driver cannot display schemas that do not have any tables.
Unable to view table data on the Data tab; SQLFetch generates an access violation.	The Oracle ODBC driver is accessing unallocated memory. Solution: Update the Oracle ODBC driver:
	For 9i drivers, update to 9.2.0.7.0 or later.For 10g drivers, update to 10.1.0.3.0 or later.

Troubleshoot SQL Server® Issues

Connection Issues

Review the following solutions to help troubleshoot SQL Server connection issues in Toad.

Issue	Cause/Solution
Cannot specify a port number when connecting	Currently, Toad does not have a separate field for specifying a port number. Solution:
	You can connect if you know the port number for the instance by entering the following in the Server name field on the New Connection window:
	ServerName,Port
	or
	IPAddress,Port
	For example:
	10.1.29.129,1234 (where 1234 is the port number of the instance)
Cannot connect to a remote instance in SQL Server 2005	Remote connections may not be enabled in SQL Server 2005. Also, named instances are configured to use dynamic ports and select an available port once the SQL Server Service starts. If you are connecting to a named instance through a firewall, configure the Database Engine to listen on a specific port, so that the appropriate port is opened in the firewall.
	Note: Remote connections are disabled by default in the Express and Developer editions of SQL Server 2005.

Issue	Cause/Solution
	Solution: To enable remote connections, see "How to configure SQL Server 2005 to allow remote connections" at: http://support.microsoft.com/kb/914277
"Path is not of a legal form" error message when connecting or "Could not find a part of the path C:\Program Files\Quest Software \Toad Data Point\Template\Scripts\ InitialSqlServer.Sql" error message when connecting	You attempted to migrate settings from a previous install of Toad to the current install, but the settings file (InitialSqlServer.Sql) for the previous install was either removed, moved, or corrupt. You may also receive this error if you installed Toad and migrated settings from a previous version, and later uninstalled the previous version. Solution: You must specify a valid location for the InitialSqlServer.Sql file in Toad. To specify a valid location 1. Open the SQL Server options page under Tools Options Database SQL Server. 2. Specify the location for the new install's InitialSqlServer.Sql file in the Run Script on new connection field. By default, this file is located in the following directory:
	C:\Program Files\Quest Software\Toad Data Point version \Templates\Scripts Note: Clicking may result in a "Path not found error". If you receive this error, manually enter the location in the field.
Cannot establish Named Pipes connection	If you are trying to connect to the server using Named Pipes, "Poll service status in connection list" option should be cleared. Solution: 1. Open the options page under Tools Options Database General. 2. Clear Poll service status in connection list checkbox.
Cannot establish Azure connection	Failing to establish Azure connection may indicate that your IP address is restricted from having access to the Azure server. Solutions: 1. Select Tools Cloud Computing SQL Azure Portal to login to Azure Portal. 2. Create a firewall rule on the master database, enabling access to current IP address or range. See "Create and Alter Azure Firewall Rules" in the online help for more information.
Cannot access some functionality when working with Azure connection.	To utilize majority of Toad functionality VIEW DEFINITION grant is required for those databases you want to work with.

Troubleshoot SAP Issues

Review the following solutions to help troubleshoot SAP issues pertaining to the following in Toad:

Connection Issues

Issue	Cause/Solution
Unable to connect to the database. The following message displays: "The ODBCMDA procedures have not been installed on this database"	Stored procedures that the ODBC driver requires currently do not exist on the server.
	Solution:
	Install the required procedures.

Missing Functionality or Object Information

Issue	Cause/Solution
Unable to view or export data for objects with non-standard names.	The ASE ODBC driver has issues handling non-standard names for objects.
	Solution:
	When setting up an ASE connection in Toad, select Use quoted identifiers on the Connection tab in the Adaptive Server Enterprise window to enable the use of quotations in identifiers.
Unable to view linked tables.	Linked tables store DSN connection information.
	Solution:
	Set up the DSN connection information exactly the same on all machines that access the database.

Other Issues

Issue	Cause/Solution
DBMS name showing as SQL Server.	Older versions of the ASE ODBC driver return <i>SQL Server</i> as the DBMS name.
	Solution:
	Upgrade to the latest version of the ODBC driver, which correctly returns <i>Adaptive Server Enterprise</i> as the DBMS name.

Configure Version Control

Version Control for Toad Files

Toad can integrate with your existing version control system allowing you to maintain multiple versions of Toad files. After you integrate Toad with your version control system, you can perform version control tasks directly from within Toad, such as commit file changes and retrieve revisions.

Toad supports the following version control systems for managing Toad files:

Apache Subversion™—Toad has been tested with Subversion 1.7.5 and 1.8.

The following types of files can be managed using version control from within Toad: Editor (.tef, .sql, .txt), Query Builder (.tsm), ER Diagram (.ter), and Automation (.tas).

To configure version control for Toad files

- 1. Ensure that an Apache Subversion client is installed on the same computer as Toad.
- In Toad, open one of the supported file types. Then right-click the document window tab and select File Version Control | Version Control Wizard. This action opens the Version Control Wizard which allows you to configure Toad for your version control system.
- 3. Use the wizard to provide information about your version control system to Toad. Review the following for additional information:

Field/Button	
Version Control System Page	
Туре	Select Subversion.
Properties	Click the Properties button and enter the path to the Subversion executable (svn.exe) on the client computer. For example, if using TortoiseSVN, the path might be:
	C:\Program Files\TortoiseSVN\bin
	Note: Do not include svn.exe in the path.
Server	Enter the URL for the Subversion repository on the Subversion server.
Login and Password	Enter the user name and password for your Subversion account.
Default Version Control Settings Page	
Version Control Folder	Select the folder on the Subversion server where you want to check in files.
	If you currently have files under version control, select the folder on the server where these files are located.
Working Folder	Select a folder on the client computer to use as the root working

Field/Button	
	folder. This is the location into which you will check out files.
	If you currently have files under version control, select your existing working folder.

To add a file to version control

- 1. After configuring version control for files, you can start adding files to version control from within Toad. Right-click a document window tab and select **File Version Control | Add file to working folder**.
- 2. Select a location in your working folder in which to save the file. Click Save.
- 3. In the Commit dialog, enter a comment and click **OK** to add the file to version control.

To browse the repository

- 1. Right-click the document window tab (of one of the supported file types) and select **File Version Control** | **Repository Browser**.
- 2. In the Repository Browser you can right-click a file to perform one of the following actions. Available actions depend on the file's status.

Action	Description
Open	Open the file in Toad.
Commit	Commit your changes. Available for <i>Modified</i> or <i>Untracked</i> files.
Undo Changes	Discards your changes and reverts to the previous revision of the file (previous commit). Available when the file status is <i>Modified</i> .
Get Latest Version	Check out the latest revision from the remote repository. Available when the file status is <i>OutOfDate</i> .

To commit your changes

• After modifying a file, right-click the document window tab and select File Version Control | Commit.

To compare revisions (Editor files only)

- After modifying and saving an Editor file, you might want to compare your changes to the remote copy (last commit) before committing your changes. Right-click the document tab and select File Version Control | Diff with latest revision.
- You can compare two revisions of an Editor file (.tef, .sql, or .txt) by using the History dialog.
 - To open a file's History dialog, right-click the document tab and select File Version Control | Show history.
 - 2. Select two revisions to compare. Then right-click the revisions and select **Compare revisions**.
 - 3. For an *OutOfDate* file, right-click the latest revision in the History dialog and select **Compare with working copy** to compare the remote file to your working copy.

To check file status

- The status of a currently open file displays in the status bar of the document window. You can also place the cursor over the document tab to display status.
- You can check the status of one or more files by using the Repository Browser. To update file status in the Repository Browser, right-click a folder and select **Update folder**.
- · Review the following file status definitions.

File Status	Definition
Untracked	The file has not been added to version control. Right-click the file in the Repository Browser and select Commit to add it to version control.
UpToDate	The file in your working folder is synchronized with the file in the remote repository. No changes are detected. No action is required.
Modified	The working copy of this file was modified. The changes are stored in the working folder only. Commit this file to add the changes to the remote repository.
OutOfDate	A more recent revision of this file exists in the remote repository. To update your working copy, check out the latest revision from the remote repository (right-click the file and select Get Latest Version).
Unknown	The file is under version control, but its status cannot be determined.
Deleted	The file was under version control, but it was dropped or renamed in the working folder and exists only in the remote repository.

Additional Actions

• To open the folder where a file is located, open the file and then right-click the document tab and select File Version Control | Open in Windows Explorer.

About Us

Quest creates software solutions that make the benefits of new technology real in an increasingly complex IT landscape. From database and systems management, to Active Directory and Office 365 management, and cyber security resilience, Quest helps customers solve their next IT challenge now. Around the globe, more than 130,000 companies and 95% of the Fortune 500 count on Quest to deliver proactive management and monitoring for the next enterprise initiative, find the next solution for complex Microsoft challenges and stay ahead of the next threat. Quest Software. Where next meets now. For more information, visit www.quest.com.

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Technical Support Resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at https://support.quest.com.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- · View Knowledge Base articles
- · Sign up for product notifications
- Download software and technical documentation
- · View how-to-videos
- Engage in community discussions
- · Chat with support engineers online
- · View services to assist you with your product

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