Toad® Data Point 4.3

Release Notes

Thursday, October 19, 2017

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About Toad Data Point

Toad® Data Point is a multi-platform database query tool built for anyone who needs to access data, understand data relationships, and quickly produce reports.

With Toad Data Point, you can:

- Connect to almost any database or ODBC data source (see the Release Notes for a list of tested ODBC connections)
- Write SQL queries and join data across all platforms
- Automate and schedule frequent and repetitive tasks
- Streamline data collection
- Collaborate with team members
- Export data in a variety of file formats

Toad Data Point provides a full-featured Database Explorer, Query Builder, and Editor for the following databases:

- Oracle®
- SQL Server® and SQL Azure
- IBM® DB2® (LUW and z/OS)
- SAP® ASE, IQ, SQL Anywhere, and HANA
- Teradata®
- MySQL

Toad Data Point also provides querying and reporting functionality via the following provider types:

- ODBC
- Business Intelligence and NoSQL data sources

- Microsoft® Excel®
- Microsoft Access®

ODBC Connections

The purpose of the ODBC provider is to offer basic connection and querying capabilities to any database that supports an ODBC 3.0 or later driver. For a list of databases tested with the ODBC provider, see the System Requirements in the Release Notes. This form of connectivity allows connections to databases such as Netezza, IBM iSeries, Ingres, and Vertica™. Because this form of connectivity is generic, it is not full-featured and may not be as robust as the fully-exploited providers for the other databases.

Business Intelligence and NoSQL Data Sources

Toad Data Point provides users with the ability to connect to non-traditional data sources, such as Business Intelligence and NoSQL sources. You can connect to these data sources and explore data and objects, query data, report results, and automate tasks.

The following data sources are supported:

Business Intelligence	Oracle Business Intelligence Enterprise Edition (OBIEE), SAP Business Objects™, Salesforce®, Microsoft SQL Server Analysis Services, Google Analytics™, OData, and SharePoint®
NoSQL	Azure Table Services, Cassandra™, Cloudera Impala, DynamoDB, HBASE™, Hive™, MongoDB™

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New Features

- Toad Data Point - Professional Edition
- Toad Data Point - Base and Professional Editions

Toad Data Point - Professional Edition

The Toad Data Point Professional edition includes the following new features and enhancements.

Toad Intelligence Central

Changes to Authentication Keys

This release includes an important change to Authentication keys. Beginning with Toad Data Point 4.3, a view can have only one type of key applied at a time (per data source), either a shared key or a personal key. This change is designed to simplify the process of Authentication. Please review the following details.

- In summary, an object can have only one type of key applied at a time. A snapshot always has a shared key. A View can have either a personal key or a shared key, but not both.

  Note: For cross-connection queries, each data source can have its own separate key type, either personal or shared.

- After a view is published, you can no longer *add* an additional key type, but you can change the key type.

- If you change a personal key to a shared key, all personal keys are removed from the object.

- If you change a shared key to a personal key, the shared key is removed from the object.

Notes:

- A similar change to Authentication key functionality is included in Toad Intelligence Central 4.3. See the Toad Intelligence Central 4.3 documentation for more information.

- If you upgrade to Intelligence Central 4.3, required modifications to Authentication keys are handled during the upgrade/installation process. See the *Toad Intelligence Central Release Notes* and *Deployment Guide* for more information.

Query Development

Cross-Connection Query Optimization. This release of Toad Data Point includes a number of enhancements that optimize cross-connection query execution for improved performance.

Toad Data Point - Base and Professional Editions

The Base and the Professional editions of Toad Data Point contain the following new features and enhancements.

Pivot Grid

This release of Toad Data Point includes a redesigned Toad Pivot Grid with more functionality, a simplified workflow, an improved user interface, and an easy-to-use window layout.

New functionality includes exporting to an Excel pivot table, exporting data to Intelligence Central and Local Storage, and creating calculated columns.
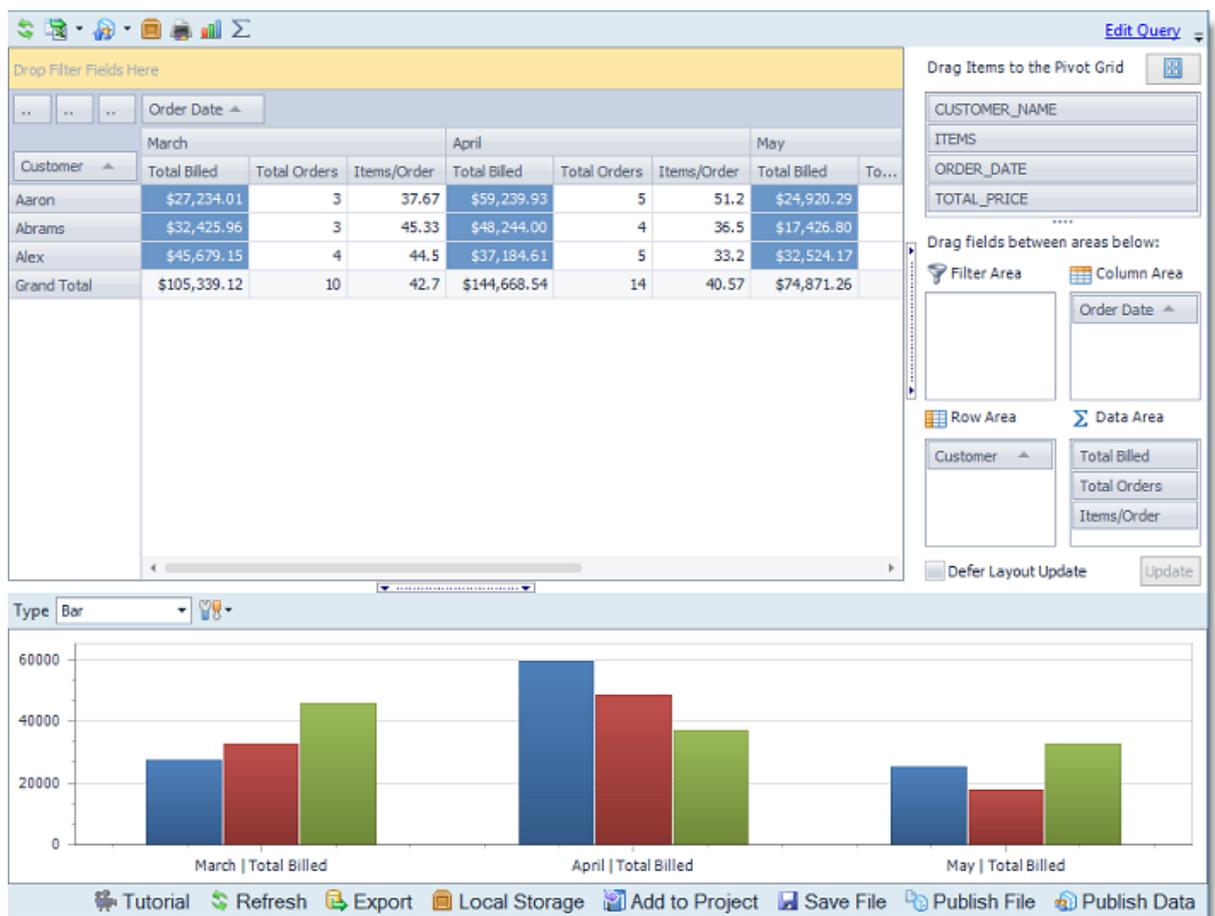
**Enhanced Pivot Grid Window.** The Pivot Grid window is now easier to use.

- You can now build a pivot grid by dragging fields from the field list to the **field Area** directly below the field list. This is similar to the workflow and layout found in Excel. You can also drag fields directly to the pivot grid.
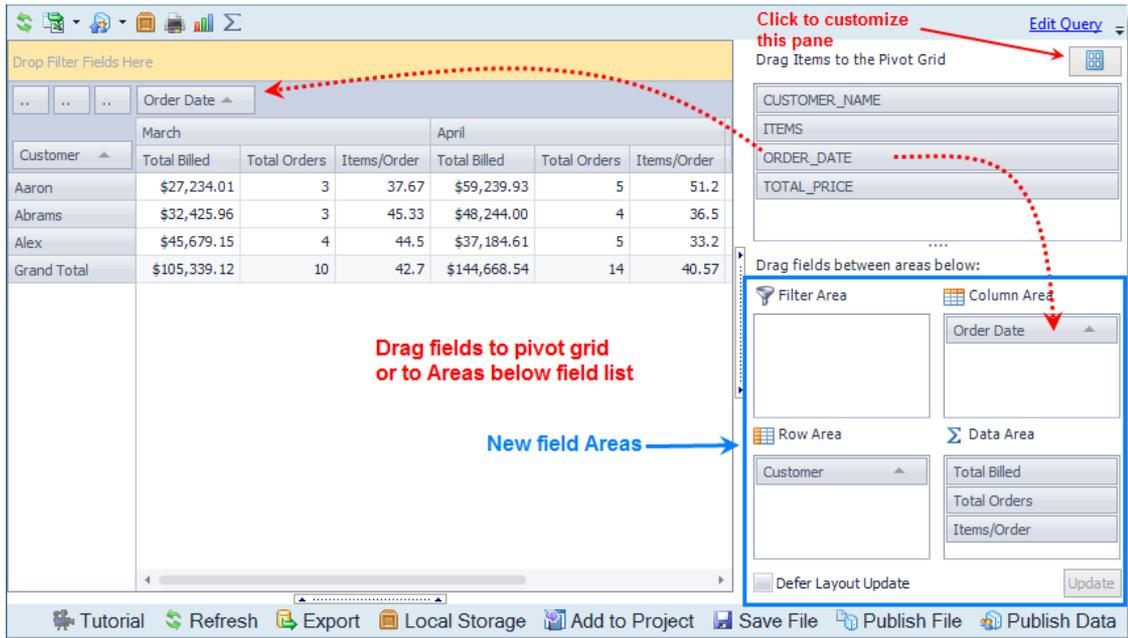

- The **field Areas** allow you to easily view which fields are applied to the grid, easily apply a filter to field values, and quickly change the field summary type, if necessary.

- By default, the field list is docked above the field Area for easy navigation. In addition, the layout of the pane is now customizable.

- Toolbar buttons and links have been added for some commonly-used actions, such as Export, Refresh, and Edit Query.

New Functionality

- **Export to Excel Pivot table.** You can now export a pivot grid to Excel as an interactive Excel pivot table that includes the underlying result set. This provides you with a working pivot table in Excel along with the underlying data, allowing you to re-pivot result set data in Excel, if necessary.
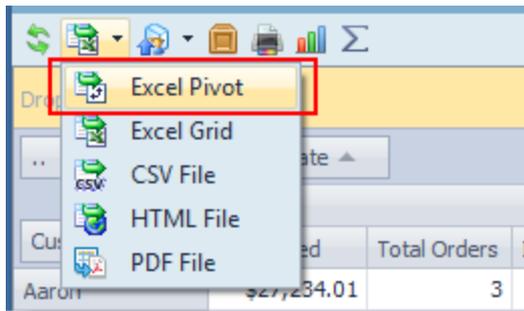

- **Export to Excel Grid includes full rows.** When exporting the summarized data to Excel as a data set (**Excel Grid**), the exported file now includes full rows of data wherever the pivot grid grouped data into merged cells.
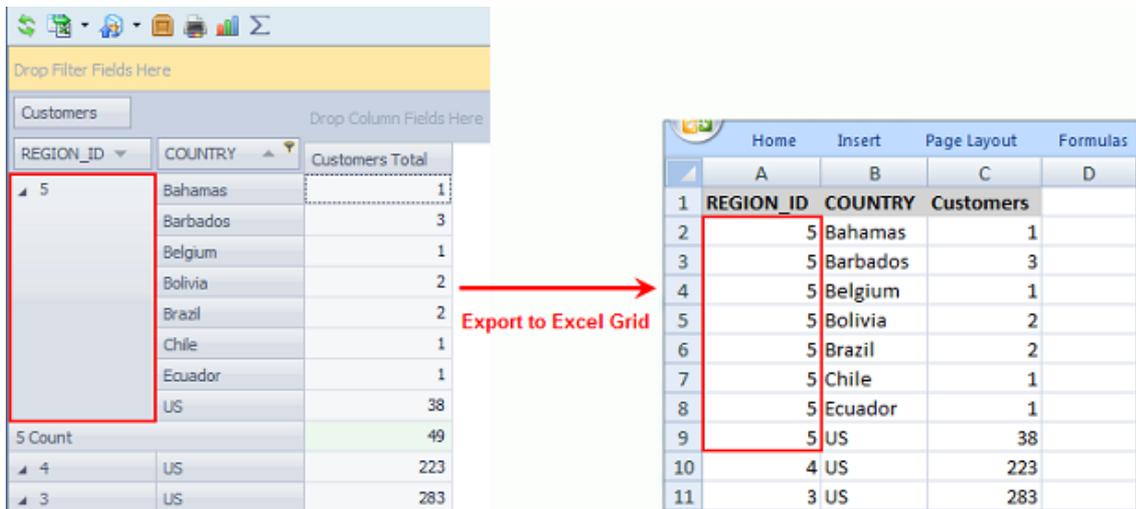
- **Export to Excel includes customization.** You can now specify a number of different options for the exported Excel file. This is similar to the customization available when exporting to Excel through the Export Wizard or the Select to File activity.

- **Create a calculated field.** You can now create a calculated field. Use the expression editor to build an expression used to calculate the new field. The calculated field is added to the field list.
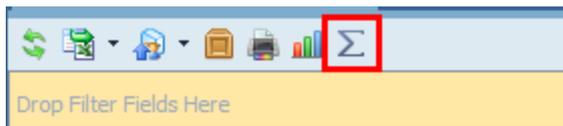

- **Add a field multiple times.** You can now add the same field to a pivot grid multiple times.

- **Save data to Local Storage.** You can now save pivoted data to a new or existing table in Local Storage.

- **Publish data to Intelligence Central.** You can now publish pivoted data to Intelligence Central as a Dataset.
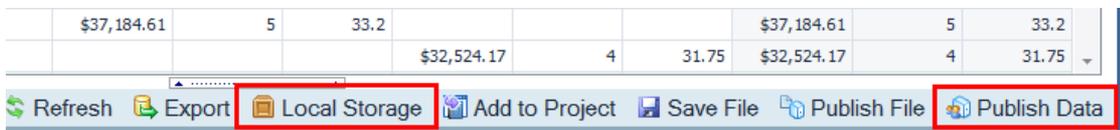
- **Enhanced Toad Pivot Grid Automation activity.** The Toad Pivot Grid activity includes additional functionality. You can now export the pivot grid to an Excel pivot table. You can now export the pivoted data to Intelligence Central as a dataset. You can now save the pivoted data to Local Storage.

- **The Toad Pivot Grid file now includes the connection.** The associated database connection is opened upon opening a saved Toad Pivot Grid file created in 4.3 (or later).

- **Edit the underlying query.** You can now edit or execute the underlying query. Click **Edit Query** in the toolbar to open an editor pane where you can modify the query or execute it to preview data.
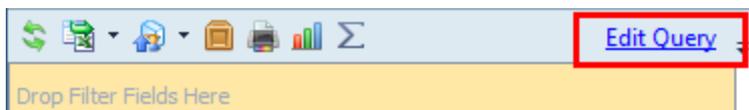
- **Customize field names.** You can now rename fields to further customize your pivot grid to create meaningful reports when sharing the Pivot Grid or exporting to Excel or other document formats. Right-click a field and select **Value Field Settings** or **Field Settings**.
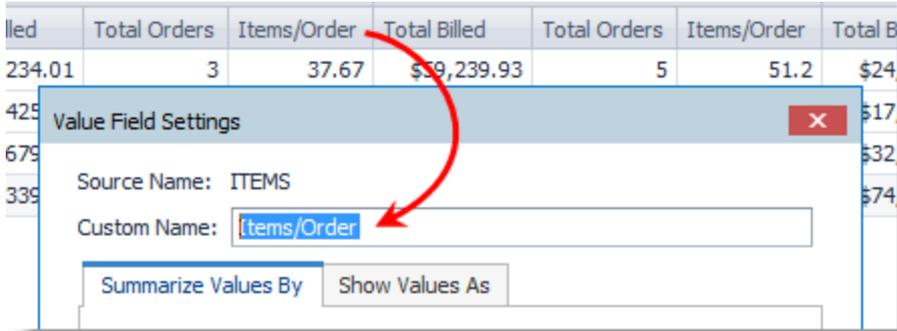
- **Customize Grand Total name.** You can now rename the Grand Total fields. Right-click a Grand Total field name and select **Rename Grand Total**.
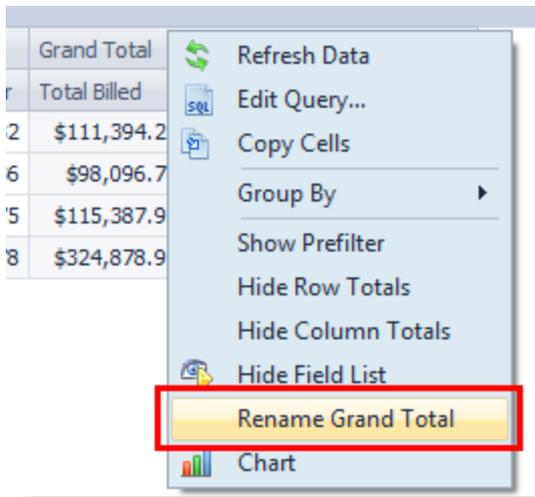
Workflow Enhancements. Frequently-used actions are now available through the right-click menu.

- Easily change the way pivot grid values are summarized. Right-click a grid value or field and select **Summarize Values By**. For subtotaled fields, select **Field Settings**.
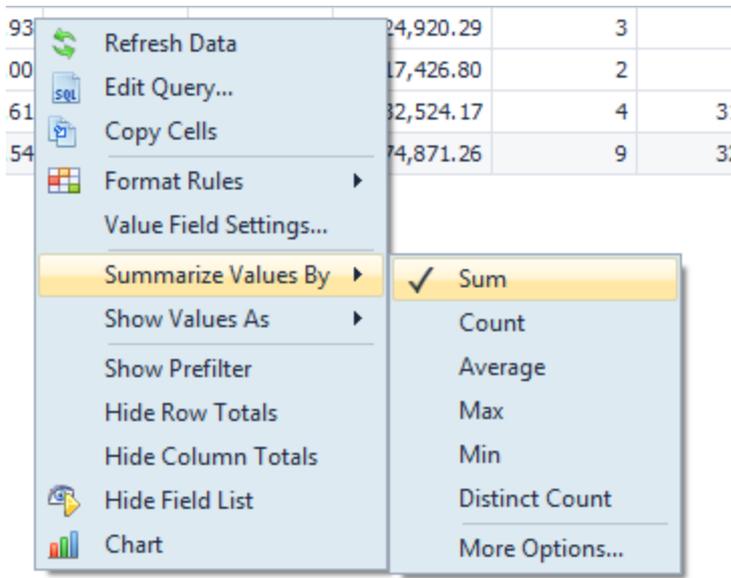
- Easily change the way values are displayed. Right-click a grid value and select **Show Values As**.
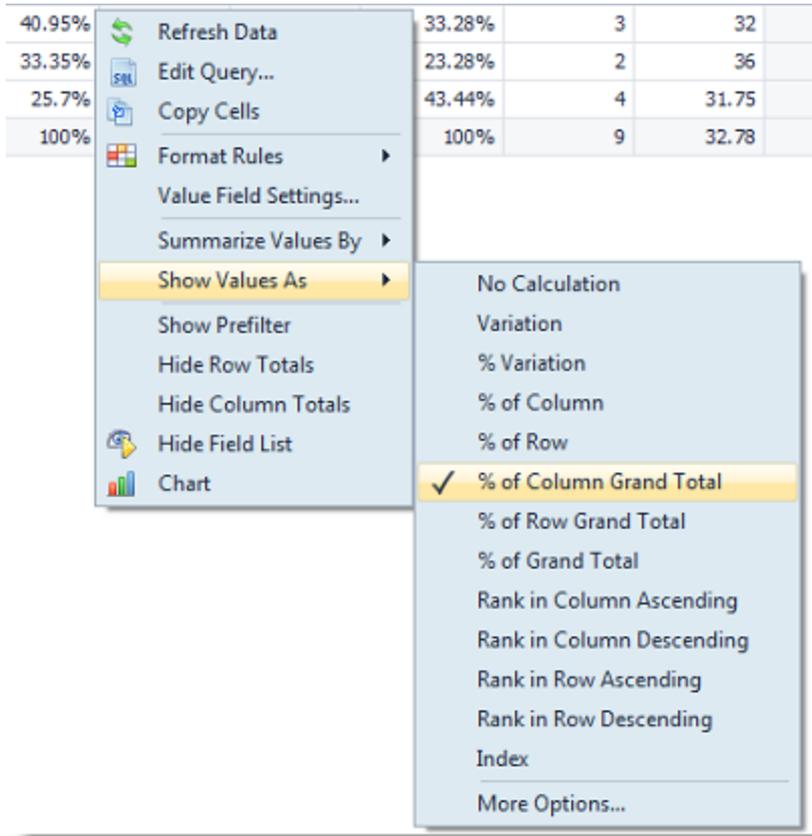
- Easily create and apply conditional formatting. Right-click the grid and select **Format Rules | Manage Rules** to open the Rules Manager. Create rules from predefined or custom conditions. Easily select cell background color, text appearance, etc.
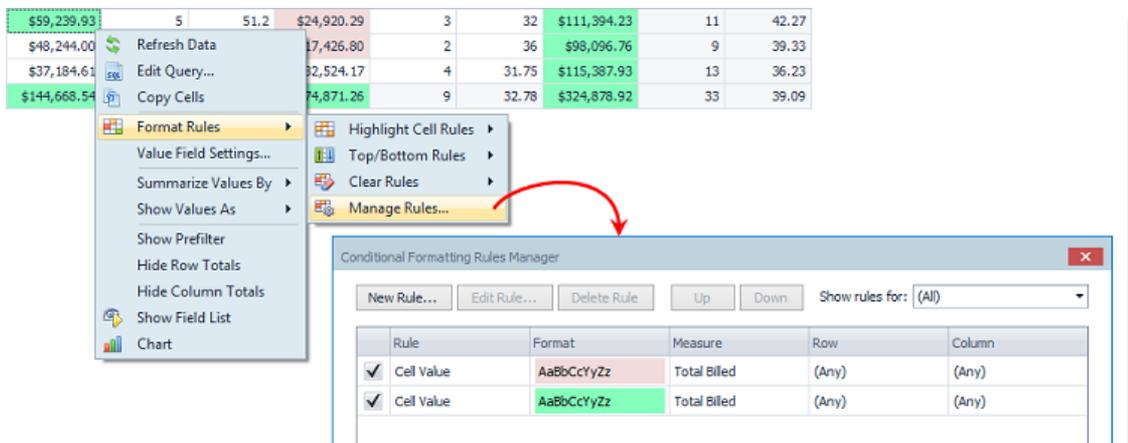
- Easily group columns or rows. Right-click a column (or row) header and select **Group By**.
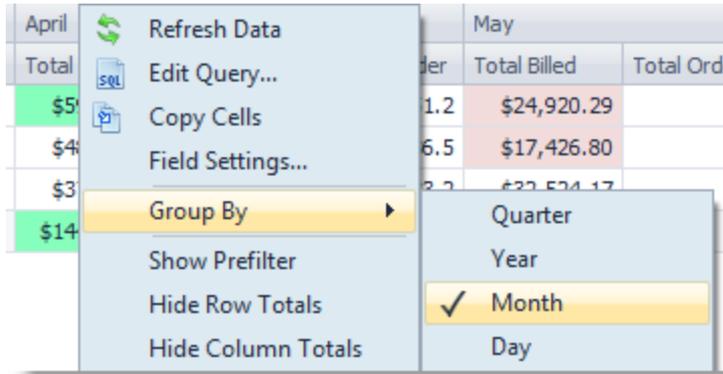
- To change number format, right-click a grid value and select **Value Field Settings | Number Format**.
- In addition to the right-click menu, the Value Field Settings dialog can be used to specify all settings for a pivot grid (Data Area) field.
  - Right-click a pivot grid value or field and select **Value Field Settings**.
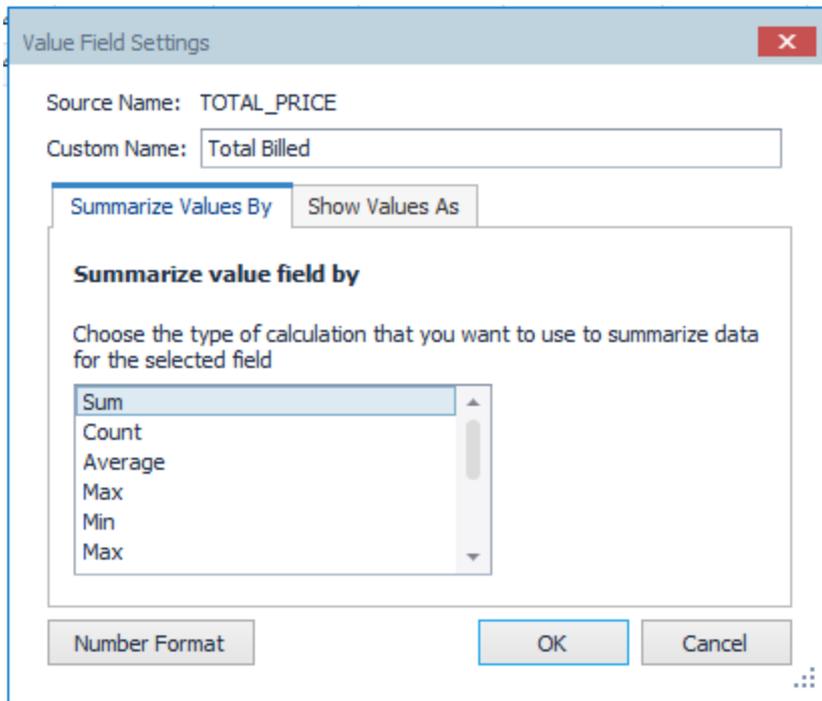
Backward Compatibility Information

In this release of Toad, the Pivot Grid tool allows you to edit and execute the underlying query. Toad Pivot Grid documents created and saved in this release of Toad include the connection information.

To upgrade a Toad Pivot Grid document created in a previous release of Toad, open the file in 4.3 and select a connection when prompted. Then execute the query (click **Edit Query**) and save the file.

Automation scripts with the Pivot Grid activity created and saved in a previous release of Toad are supported and should execute as expected when run using Toad Data Point 4.3.

Supported Data Set Size

If your result set contains a large number of rows (one million or more), you may experience a delay or reduced performance when sending data to, or working in, the Pivot Grid. For best results, work with a data set of less than one million rows. For larger data sets, try the following workaround.

Workaround: If your result set contains a large number of rows, build the pivot grid on a sampling of rows. Then use an Automation script to pivot all rows.

1. Execute a query in the Query Builder or Editor, but do not read all rows.
2. Send the sampling of rows to the Pivot Grid and create your pivot grid document.
3. Create an Automation script using the Toad Pivot Grid activity with your pivot grid document as input.
4. Run the Automation script to read all rows and refresh the pivot grid.

Query Development

Aggregate Field in Calculated Column. In the Query Builder, the **Aggregate** field is now enabled for Calculated columns in the Criteria (lower) pane.

Note: Although the entire list of Aggregate functions is available, select only a function applicable to the current Calculated column to avoid a database error.

Automation

Set Variable Activity. In the list of available **Date** functions in the expression editor, the Date function **Round()** has been replaced with the function **RoundDate()**. The functionality is the same. The Math function Round() remains unchanged.

Activity Result Variable. Instead of an empty string, the value of the "_ACTIVITY_RESULT" variable is now set to "Succeeded" when an Automation activity does not error.

General

Specify Foreground Execution Timeout. You can now specify a timeout for the execution of a SQL statement on the foreground thread. To set this option, go to **Tools | Options | Database | Timeout**.

Export to Excel - Consistent Export Options Dialog. When exporting to Excel, Toad allows you to customize file and worksheet options for the exported Excel file. This feature is available when exporting to Excel from a number of different Toad modules, including the Select to File activity in Automation, Transform and Cleanse, the Dimensional Viewer, and now the Pivot Grid. In an effort to make this customization process consistent among modules, Toad now provides a single, easy-to-use Export options dialog.

Toad Security. Beginning with Toad Data Point 4.3, Toad Security is no longer available by default. The option to implement Toad Security (**Tools | Administer | Toad Security**) is not enabled. To enable Toad Security, see Quest Support.

See Resolved Issues for more enhancements and resolved issues in this release of Toad Data Point.

Idea Pond

Got a great idea for a new Toad Data Point feature or enhancement? Share it with the Development Team and the Community by posting it on Idea Pond.

Visit Toad Data Point - Idea Pond where you can submit your ideas. You can also read and vote on the enhancement ideas submitted by other Toad users.

Learn More

Remember, you can find blogs, videos, and forums at the Toad Data Point Community.

- Learn about new features from product video demos.
- Find answers to your questions in the forums.
- Learn tips and tricks from blog posts.
- Find product documentation

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Resolved Issues and Enhancements

The following is a list of issues addressed and enhancements implemented in this release of Toad Data Point.

Feature	Platform	Resolved Issue / Enhancement	Defect ID
Automation	N/A	The drive letter in a network path is now translated to the full UNC name in a scheduled Automation script, as expected.	QAT-10197
Automation	N/A	Enhancement: Instead of an empty string, the value of the "_ACTIVITY_RESULT" variable is now set to "Succeeded" when an Automation activity does not error.	QAT-10230
Automation	N/A	Select to File and Export Wizard: Corrected an issue that was preventing Toad from completely clearing the worksheet before exporting to an existing Excel file when "Clear worksheet data before exporting" was selected. In this case, blank formatted rows remained after row count was reduced in subsequent exports. This correction is also in Toad Data Point 4.2.1.	QAT-10778, QAT-10863
Automation	N/A	Export Wizard activity: If this activity exports to a macro-enabled Excel file, when the script is executed and the file does not exist, Toad now displays a descriptive error message instead of creating a blank .xlsm file.	QAT-10688, QAT-10774
Automation	N/A	Dimensional Viewer activity: Corrected an issue which prevented the export of Calculated columns and Rollup columns when exporting to Excel.	QAT-10399
Automation	N/A	Set Variable activity: Added helpful messages and tooltips hints that display if a date value is entered and requires single quotes.	QAT-10547
Automation	N/A	Refresh Snapshot activity: If snapshot refresh errors when source table does not exist, the error is now reported in the script execution log, there is no error dialog, and the script fails.	QAT-10305
Automation	N/A	Dimensional Viewer activity: Corrected an issue that caused an "Index out of range" error when executing a Dimensional Viewer activity after switching the Dimensional View file.	QAT-10295

Feature	Platform	Resolved Issue / Enhancement	Defect ID
Automation	N/A	Set Variable activity: Corrected an issue that caused an error when attempting to execute a script in which a variable was defined using the function, Round(). In the Expression editor, the Date function Round() has been renamed to RoundDate().	QAT-10795
Automation	Oracle	Select to File activity: If multiple queries are used, each query now exports to a separate worksheet, even when the overwrite and the add suffix options are selected.	QAT-10553
Automation	N/A	Run Automation Script activity: Corrected an issue that caused a "This file was not available at runtime" error when running a script in batch mode that contains a Run Automation Script activity and was created in a previous version of Toad.	QAT-10508
Automation	Oracle	Set Variable activity: Corrected an issue in which the Set Variable activity evaluated a string value that included a date format using the forward slash delimiter (/) as an expression.	QAT-11011
Automation	N/A	Corrected an issue in which an Automation script failed to error even though the connection in the Loop Dataset activity failed to connect.	QAT-10298
Automation	Oracle	Export Wizard activity: If the Export Wizard activity connection does not have a saved password, the Automation script errors as expected, instead of prompting the user by opening a dialog.	QAT-10996
Automation	N/A	Execute Script activity: If you attempt to publish a table that does not exist to Intelligence Central using the Execute Script activity, you now encounter an informative error message.	QAT-10984
Automation	N/A	Execute Script activity: Corrected an issue that caused an error message dialog to open instead of presenting the error message in the log file only, as expected for an Automation script.	QAT-10960
Automation	N/A	Set Variable activity: Using the DateTime Variable type and a single-quoted value is now supported as a bind in the Bind Parameters dialog and when used in a SQL statement.	QAT-10962
Automation	N/A	Toad provides a more helpful error message now when an activity uses a file (such as a Toad document) and the file is missing at run time.	QAT-10306

Feature	Platform	Resolved Issue / Enhancement	Defect ID
Automation	N/A	Corrected an issue in which a date value in a string variable was surrounded by single-quotes when expressed in a file name (i.e., filename_#MyVar#.xlsx was expressed as filename_'datevalue'.xlsx).	QAT-10709
Automation	N/A	Pivot Grid activity: You can now export to Excel and append sheets to the same Excel file upon subsequent executions.	QAT-10701
Automation	N/A	Compare Data activity: Corrected an issue that caused a "File in use" error when running two Data Compare scripts simultaneously.	QAT-10789
Automation	N/A	Corrected an issue that caused an FTP connection error to be written to the Windows Event Log upon execution of a script containing an FTP connection.	QAT-11234
Automation	N/A	Select to File activity: Corrected an issue that prevented Toad from notifying the user that there is an undefined variable if the query is originating from a linked SQL file.	QAT-11418
Automation	N/A	Select to File activity: You can once again use the Expression editor to build a file name suffix.	QAT-11058
Automation	N/A	Select to File activity: Corrected an issue involving using a suffix in the file name and the Overwrite option.	QAT-11434, QAT-11394
Automation	N/A	Loop Dataset activity: Corrected an issue that caused an error in the Loop Dataset activity when the SQL included a comment.	QAT-11415
Automation	N/A	Corrected an issue that caused Toad to incorrectly interpret a variable string value that contained a dash (-) or forward slash (/).	QAT-11166
Connections	Composite ODBC	Corrected an issue that resulted in incorrect data values in TINY INT columns when displayed in Toad.	QAT-10694
Connections	Apache Hive	HiveServer2: Improved user experience upon initial connection to a large Hive data source. Toad now maps only the current schema to reduce the delay when presenting objects in the Object Explorer, especially when multiple large databases are involved.	QAT-10517, QAT-10557, QAT-10864
Connections	SAP ASE	In the SAP ASE Connection Properties dialog, you can now specify a default language to use for the connection. This value overrides your Regional Language setting, for this connection only.	QAT-10368

Feature	Platform	Resolved Issue / Enhancement	Defect ID
Connections	SAP HANA	This release of Toad Data Point was tested against SAP HANA 2.0.	QAT-10605
Connections	Oracle	This release of Toad Data Point was tested against Oracle 12c R2.	QAT-10512
Connections	Oracle	Corrected an issue in which the user was prompted to commit data after closing a connection even though no data was changed. This issue also occurred when closing Toad or when a connection was idle for an extended time period.	QAT-10851
Connections	Amazon Redshift ODBC	This release of Toad Data Point was tested with Amazon Redshift ODBC driver 1.3.6.1000.	QAT-11160
Connections	Business Intelligence, NoSQL	Added an enhancement to improve mapping objects with very large row size from Business Intelligence and NoSQL data sources.	QAT-10847
Connections	Amazon Redshift ODBC	Enhanced the Redshift ODBC connection to include the same features as a PostgreSQL connection.	QAT-11161
Connections	PostgreSQL ODBC	Added support for PostgreSQL and Oracle non-standard passwords. For PostgreSQL, enclose password in curly brackets.	QAT-11185
Connections	SAP ASE	Corrected an issue that caused "Domain error during conversion of INT value '0' to a BIT field" error in a SAP ASE connection when switching between databases.	QAT-11655
Connections	Ingres ODBC	Corrected an issue that resulted in an error when trying to save changes to date fields through the data grid.	QAT-11740
Cross-Connection Query	Teradata	Corrected an issue that caused an error when attempting to execute a cross-connection query with an LDAP connection to Teradata.	QAT-6740
Data Compare	N/A	Corrected an issue in which cell formatting was not retained when data was exported to Excel.	QAT-10194
Data Compare	N/A	You can now resize the Data Compare Wizard window.	QAT-11326
Data Grid	N/A	Corrected an issue that caused some number columns to be treated as string values, for example when filtering or sorting, and to be displayed left-justified instead of right-justified.	QAT-11107
Database Explorer	Teradata	For Teradata Views, the column type is now displayed in the Columns tab, as expected.	QAT-10410

Feature	Platform	Resolved Issue / Enhancement	Defect ID
Dimensional Viewer	Cross-Connection	Corrected an issue that caused an error when refreshing after the underlying query was modified to now include a cross-connection query.	QAT-10247
Documentation	N/A	The Beta Release Notes now include the resolved issues from previous Beta releases.	QAT-10949
ER Diagram	N/A	Corrected an issue that caused an error when attempting to edit a Database Diagram (ER Diagram) file.	QAT-11564
Export Wizard	N/A	Export to macro-enabled Excel: Corrected an issue that changed the order in which macros execute after opening the Export Wizard template.	QAT-10903
Export Wizard	N/A	When opening an existing template which exported multiple objects to separate worksheets, the Export Options page did not show the correct target worksheet for each object. This issue has been corrected.	QAT-10122, QAT-11018
Export Wizard	N/A	Corrected an issue in which exporting to Excel produced a file where CTRL+END moved to an empty row after the last populated row. Now CTRL+END moves to the last populated cell in an Excel export file as expected.	QAT-10973
Export Wizard	N/A	Refined some workflow steps when selecting a Query or Query file from which to export. Refined steps include editing the query and using the Back button.	QAT-2075
Export Wizard	N/A	When exporting multiple objects and you choose to include the SQL statements in the output file, all SQL statements selected are now included in the exported file, as expected.	QAT-10976
Export Wizard	N/A	When exporting a very large SQL statement to Excel, the statement is now exported to multiple cells in order to include the entire statement and comply with Excel's 32,767 character limit.	QAT-10977
Export Wizard	Microsoft Access	You can use a variable (#MyVar#) in the Access table name.	QAT-11115
Export Wizard	Teradata	Corrected an issue that caused export to fail in the Export Wizard when using a bind parameter. The error message includes the following: "A null has been specified as the value for a parameter."	QAT-11777
General	N/A	Toad Security is now disabled by default. To enable Toad Security, contact Quest Support.	QAT-9887

Feature	Platform	Resolved Issue / Enhancement	Defect ID
General	N/A	Corrected an issue that caused an error when attempting to view column information for a table when the table name was a MySQL reserved word.	QAT-8531
Import Wizard	SAP ASE	Corrected an issue that caused an error when attempting to import data into an identity column in an existing table. The issue involved the "Identity Inserts" option in the Import Wizard.	QAT-10370
Installation	N/A	Corrected an issue that cause a "Could not load the DLL library ...TempCustomActions.dll" error during installation for some users in a Windows 7 environment.	QAT-10707
Job Manager	N/A	Corrected an issue that caused an error in the Task List pane in the Job Manager window when attempting to use the Job Manager.	QAT-10492
Job Manager	N/A	Corrected an issue that caused an error in the Job Manager. The error occurred after selecting a computer/server in the Windows Tasks tab.	QAT-10780
Migration	N/A	Customized toolbars are now migrated correctly from the previous version when a new version is installed.	QAT-10676
Migration	SQL Server	Customized Editor Highlighting Styles for SQL Server are now migrated correctly from the previous version when a new version is installed.	QAT-10621
Migration	N/A	Corrected an issue that prevented several user settings files from migrating correctly from a previous version when a new version was installed.	QAT-10979
Object Explorer	SAP IQ	Support for Int and Integer for column type in the Create Table editor.	QAT-10356
Options	N/A	Corrected an issue that for some users caused an error after clicking "Restore Defaults" in the Options dialog.	QAT-11195
Pivot Grid	N/A	You can now edit the "Grand Total" label in a pivot grid.	QAT-10721
Pivot Grid	N/A	Enhancement: You can now export to an Excel pivot table from a Toad Pivot Grid.	QAT-8334
Pivot Grid	Oracle	Corrected an issue that prevented values from being displayed for a calculated column which did not have an alias.	QAT-9178
Pivot Grid	N/A	Corrected an issue in which the underlying query was not sent to the Pivot Grid along with the result set from the Query Builder.	QAT-11038

Feature	Platform	Resolved Issue / Enhancement	Defect ID
Query Builder	N/A	Corrected an issue where upper/lower case was used inconsistently when applying and referencing the name of a calculated field.	QAT-9997
Query Builder	Oracle Cross-Connection	Corrected an issue that caused an "Invalid data source definition: ORA-01005" error when attempting to view the Venn diagram for a join in an Oracle cross-connection. This issue occurred with an Oracle connection using Windows Authentication.	QAT-10695
Query Builder	Teradata	Corrected an issue that resulted in additional quotes around date values in the WHERE clause for the query generated in the Query tab.	QAT-11186
Query Builder	N/A	User Interface: When the Query Builder Diagram contains multiple joins, attempting to remove a join removes the selected join as expected.	QAT-11491
Query Builder	N/A	Corrected an issue in which Toad removed the "NOT" operator in this special case after the user attempted to Visualize the SQL statement after pasting it into the Query tab of the Query Builder.	QAT-10752
Query Builder	Netezza	Added support for reverse engineering for Netezza connections.	QAT-11796
SQL Editor	N/A	Corrected an issue that prevented some users from successfully opening a .sql file while Toad had an open connection. In this case, Toad would unexpectedly hang. This issue was encountered with a MySQL connection.	QAT-10502
SQL Editor	N/A	Corrected an issue that caused an unexpected delay for some users when attempting to execute SQL in the SQL Editor. This issue was encountered with an Oracle connection.	QAT-10850
SQL Editor	IBM DB2 LUW	Corrected an issue that caused Toad to pause indefinitely after applying the row limit to the Editor in Options	Database	General and then executing a query in the Editor. This issue was encountered only with an IBM DB2 LUW connection.	QAT-11250
SQL Editor	N/A	A SQL Editor custom toolbar is now migrated when you upgrade to a new release of Toad if the bitness is the same. Note: A custom toolbar is not migrated if upgrading to different bitness of Toad, i.e., 32-bit to 64-bit or vice versa.	QAT-11377

Feature	Platform	Resolved Issue / Enhancement	Defect ID
Toad Intelligence Central	N/A	Run Automation Script activity: When publishing a script containing a Run Automation Script activity and the child script includes a connection, the connection is now included in the Publishing dialog and the published script as expected.	QAT-10427, QAT-10010
Toad Intelligence Central	N/A	You can no longer publish an Automation script that uses a macro-enable Excel file if the file is stored locally. To successfully publish, the .xlsm file must use a Network path.	QAT-10688, QAT-10774
Toad Intelligence Central	N/A	If an Automation Script running in Intelligence Central executes a macro in an Excel spreadsheet, then Microsoft Excel must be installed on the Intelligence Central host computer. If Excel is not installed, Toad now displays a descriptive error message.	QAT-10688, QAT-10774
Toad Intelligence Central	N/A	Automation - Dimensional Viewer activity: Corrected an issue that caused the connection information in the "Export to Intelligence Central" fields in this activity to be included in the Publishing dialog, even the fields were disabled by the user.	QAT-10294
Toad Intelligence Central	N/A	Automation - Dimensional Viewer activity: Corrected an issue that prevented the user from publishing a script in which the Dimensional Viewer file used a cross-connection query. A message displayed indicating the script contained a Local Storage connection.	QAT-10293
Toad Intelligence Central	N/A	Enhancement: You can now easily edit an object description. In the Object Explorer, right-click an object and select Operations	Edit Description.	QAT-7277
Toad Intelligence Central	SAP IQ, SAP HANA	Corrected an issue that caused an error when attempting to publish a view containing a bind variable to Intelligence Central from an SAP IQ or SAP HANA connection.	QAT-10333
Toad Intelligence Central	N/A	Significantly improved performance when publishing a very large number of rows (in this case, more than one million) as a View to Intelligence Central.	QAT-10440
Toad Intelligence Central	N/A	Corrected an issue that caused a Timeout error when attempting to publish a very large number of rows to Intelligence Central as a dataset or as a snapshot.	QAT-10908

Feature	Platform	Resolved Issue / Enhancement	Defect ID
Toad Intelligence Central	Oracle	You now encounter an error if attempting to publish an unsupported data type. Previously this issue resulted in publishing an object with an inaccurate number of rows. This issue was encountered when publishing a View.	QAT-10099
Toad Intelligence Central	N/A	If an Automation Script running in Intelligence Central executes a macro in an Excel spreadsheet and the user account specified to run this script is not configured to execute macros in Excel, Toad now displays a descriptive error message. Instructions to resolve this issue are now included in the Help file.	QAT-10993, QAT-10688
Toad Intelligence Central	SQL Server	You cannot publish from a SQL Server connection that uses Windows Authentication. If you attempt to do so, the Publishing dialog now provides an informative error message.	QAT-10066
Toad Intelligence Central	SQL Server	To successfully publish from a SQL Server connection that uses SQL Server Authentication, the SQL Server user account must have db_datareader privileges and the view permission.	QAT-10066
Toad Intelligence Central	Oracle	You cannot publish from an Oracle connection that uses Windows Authentication. If you attempt to do so, the Publishing dialog now displays an informative message.	QAT-10942
Toad Intelligence Central	Oracle	Corrected an issue which prevented the user's Oracle ODBC driver from displaying in the Oracle drop-down list in the Advanced tab of the Intelligence Central Connection Properties dialog.	QAT-11155
Toad Intelligence Central	Oracle	Corrected an issue that prevented publishing from an Oracle table with a non-standard, lower-case name.	QAT-11172
Toad Intelligence Central	N/A	Corrected an issue that prevented successful publishing for SQL containing a WITH clause. Now a WITH clause can be published, with some restrictions (see the online Help). This issue was encountered when publishing an Oracle WITH clause.	QAT-11159
Toad Intelligence Central	N/A	Corrected an issue that caused only a partial refresh of the Automation scripts window after pressing F5 (Refresh).	QAT-11252
Toad Views	N/A	Creating a new Toad View by right-clicking and selecting "New Toad View" in the Toad View manager pane now works as expected.	QAT-10959

Feature	Platform	Resolved Issue / Enhancement	Defect ID
Transform and Cleanse	N/A	Corrected an issue that could cause an error message to display when closing Toad after using the Transform and Cleanse or the Data Profiling tool.	QAT-10967
User Interface	N/A	In the File | Recent Files list and the Recent Documents list, the entire file name is now displayed.	QAT-9830
User Interface	N/A	Dimensional Viewer: The Detail Grid window (right-click | Show Details) now includes a horizontal scroll bar for easier viewing.	QAT-8571
User Interface	N/A	Corrected spelling error in an ODBC message.	QAT-10981
User Interface	N/A	Corrected an issue which for some users caused an inactive SQL Editor window to unexpectedly gain focus even though another window was active at the time.	QAT-10419

Note: This list does not include every resolved issue for this release. To inquiry about an issue not listed here, please contact the Toad Data Point Team at the Toad Data Point community Web site.

Toad Intelligence Central: If you are publishing objects to Intelligence Central, review the Toad Intelligence Central - Release Notes.

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Known Issues

The following is a list of issues known to exist at the time of this release.

Feature	Platform	Known Issue	Defect ID
General	Sybase ASE	Currently, if you open a Toad file in Toad Data Point 3.0 or later that contains a connection to Sybase ASE and was saved in Toad for Data Analysts 2.7 (or earlier) the file opens in an untitled Editor window. Use the following workaround which is for a Query Builder file, but a similar method can be used for any Toad file. **Workaround 1:** 1. If you receive a message stating that the saved file cannot be opened, close the message pop-up. You will see that your Toad Query Builder document is open in an Editor window. Send this document to the Query Builder (**Editor | Send to Query Builder**). 2. Save the new Query Builder document as a new Toad file. **Workaround 2:** 1. Open the Toad file in Notepad. 2. Use **Find and Replace** to change all instances of "sybase" (all lowercase) to "Sybase" (first character uppercase, with the rest lowercase).	N/A

General	Excel	If an Excel file is open in Toad, you cannot open the same file in a separate Excel instance. To review this and other limitations when using Excel in the Web Browser, see "Considerations When Using the WebBrowser Control" at: http://support.microsoft.com/kb/304662.	ST42486
General	Salesforce	After successfully changing the password or token for a Salesforce connection in Toad, attempting to open a Toad document created in a previous version (3.7 or earlier) using this connection results in a "Could not resolve connection" error. **Workaround:** Recreate the Toad document (Import/Export template, Query Builder file, Automation script, etc.) using Toad Data Point 3.8 or later.	N/A
Installation/ Upgrade	All	(MSI installs on Windows Vista and 7) If you are using MSI to install Toad on Windows Vista or 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	N/A
		Toad Data Point does not support installation paths that contain UNICODE characters.	N/A
		Toad Data Point 3.0 or later doesn't support User IDs that contain Unicode characters.	ST90367, ST90372
		The Toad Data Point Read Only installation is read-only for all databases, with the exception of MySQL. If you are using a Read Only installation of Toad Data Point, you will be able to modify a MySQL (and only MySQL) database.	N/A
		Currently, you cannot install Toad Data Point to a path that contains non-English characters. By default, Toad Data Point installs IBM DB2 merge modules as part of the standard installation process. These merge modules only support English characters. **Workaround (Stand-alone installation):** In the Destination Folder page of the installer, only use a destination directory that contains English characters	ST66330
Installation	n/a	During installation on Windows 8, some users might encounter a prompt from Windows to install .Net Framework 3.5. **Workaround:** In the Windows prompt, click **Skip this installation** to instruct Windows *Not* to install .Net Framework 3.5.	N/A
Startup	DB2	(Windows Vista on Toad client only) From the Client Configuration Wizard, when exporting the DB2 catalog profile as a standard user, the profile should be saved to the default installation directory in C:\Program Files\. However, a standard user does not have write privileges in Vista to C:\Program Files so the catalog profile is saved to the following directory instead: C:\Users\db2admin\AppData\Local\VirtualStore\Program Files\Quest Software\Toad Data Point 4.3	N/A

Connections	ODBC	Currently, Toad does not support ODBC connections to the following databases:	ST69744
		• Sybase Advantage	
		• Oracle RDB	
		• Progress OpenEdge	
		• MySQL ODBC (The ODBC 3.51.17.0 driver is not supported, and attempting to connect using this driver results in columns not displaying for tables.)	
		Workaround:	
		Upgrade the MySQL ODBC driver to 3.51.27.00 or later to display table columns.	
Connections	Access	Currently, for a password-protected Access database, selecting **Save password** in the Connection Properties dialog does not preserve the password for the next Toad session.	ST94125
		Workaround:	
		1. To open a password-protected Access connection, right-click the connection in the Navigation manager and select **Properties**.	
		2. Select the Advanced tab and enter the password.	
		3. Select the **Save password** checkbox and click **Connect**.	
		Note: This will allow you to connect to the database and save the password for this session of Toad. Repeat the procedure if you re-launch Toad.	
Connections	Vertica ODBC	When using the Vertica ODBC driver version 6.1.1, data containing UTE-8 characters does not display correctly.	ST109484
		Workaround: Right-click the Vertica ODBC connection in the Connections Manager and select **Properties**. In the Connection Properties dialog, in the General tab, enter the following in the ConnectionString field:	
		ColumnsAsChar=0	
Connections	Amazon Redshift	You might experience problems after a Redshift connection is unexpectedly dropped.	QAT-2194
Connections	Amazon Redshift	After canceling a Redshift query it might continue to run on the server.	QAT-2195
Connections	Amazon Redshift	When a Redshift connection in Toad is inactive for a period of time, attempting to access the connection can result in an error.	N/A
		Workaround: Change the Windows TCP/IP timeout settings as recommended by Redshift. See "To change TCP/IP timeout settings" at http://docs.aws.amazon.com/redshift/latest/mgmt/connecting-firewall-guidance.html.	
		Caution: Editing your Registry incorrectly can cause serious, system-wide problems. It is advised that you back up your registry before modifying it.	
Connections	N/A	Exported connections: A connection file exported from Toad Data Point 3.6 or later cannot be imported into version 3.5 or earlier.	N/A

Connections	MongoDB	For a MongoDB 3.0 (or later) connection, the user must have Read/Write privileges in the MongoDB database in order to view sub-tables (MongoDB embedded documents).	TIC-5520
Automation	All	If Toad Data Point 4.3 is launched as administrator on Windows 7/Vista systems with UAC turned on and Outlook running, the auto-populate SMTP server info and contact list in Automation Email and Error Emails does not function properly. **Workaround:** Submit this information manually. Another option is to either run Toad Data Point 4.3 not as administrator, or turn UAC off, or close Outlook when adding the Send Email activity in Automation.	ST80857
Automation	All	When Toad runs *as an application* in a Citrix environment, scheduled scripts might not execute if the user who scheduled the tasks is not logged on. In addition, an "Access Denied" error is logged for the scheduled task in the Windows Scheduler. **Workaround:** Install and run Toad as a desktop when using Toad with Citrix.	N/A
Data	ODBC - Ingress	In some cases, earlier Ingress ODBC drivers display an "Invalid number of columns or parameters specified" error message when displaying data that has Unicode characters. **Workaround:** Download the latest Ingres 9.3 ODBC driver.	N/A
Execution Plan	SQL Server	You cannot generate an estimated execution plan for a local temporary table because the execution plan uses a different connection to generate the plan and does not know about the temp table. **Workaround:** Use the actual execution plan button to generate execution plans for SQL that contains a temp table.	N/A
Export Wizard/ One Click Export	Access, Excel	Limitations when exporting fractional seconds: • When exporting to an Access Database File, exports do not support fractional seconds, so the additional data is not exported. • When exporting to an Excel instance, exports support only 3-digits for fractional seconds. However, if you export to an Excel file, it supports all fractional seconds.	N/A
Import Wizard	Excel	Attempting to import data that was exported to an Excel instance where the fractional seconds were truncated results in an error.	N/A
		Attempting to import data from a template that contains multiple worksheets results in an error.	ST77978
	ODBC - DB2 iSeries, Netezza	Currently, the **Truncate table** checkbox is disabled on the Select Target page when using an ODBC connection to a DB2 iSeries or Netezza database.	ST77986
	Oracle, DB2	When importing data using the Add Query feature, BLOB	ST77255

		data is not imported even though the dialog and log indicate that the import was successful.	
Library	N/A	A UAC setting at the highest level might interfere with the ability to drag a file to the Library window (from Windows Explorer) to add it to the Library. **Workaround:** Set UAC to the default level to enable adding a file by dragging it to the Library window.	N/A
Local Storage	N/A	**Issue:** Local Storage is incompatible with previous versions of Toad. If you upgrade to Toad Data Point 3.6 from a previous version, Local Storage upgrades silently and can no longer be used by the previous version of Toad Data Point (3.5 or earlier). If you plan to uninstall 3.6 after installing it and then resume using a previous version, backup your Local Storage data prior to installing 3.6. **To backup Local Storage data** 1. Navigate to C:\Users*username*\AppData\Local\Quest Software\Toad Data Point Hub Data. 2. Make a copy of the *Toad Data Point Hub Data* folder and save it using a new name (such as *Toad Data Point Hub Data 3.5 backup*). If you uninstall 3.6, just move this copy back and use the original folder name.	QAT-3812
Object Explorer/ Database Explorer	Sybase ASE	When viewing a table that contains a BIGTIME data type column, attempting to select the Data tab causes Toad to unexpectedly quit.	N/A
Object Explorer/ Database Explorer	Sybase ASE	Currently, only foreign key constraints can be added or modified for existing Sybase ASE tables.	ST55111
	Oracle 11g	On the Create/Alter User window, if you are modifying a password, you must enter the password in the proper case. You do not need to surround the password with double quotes. If you enter the password in lowercase on the Create/Alter User window, and the generated script has a SQL command containing the password in lowercase, you will need to type the password in lowercase to login. If you enter the password in uppercase on the Create/Alter User window, and the generated script has a SQL command containing the uppercase in lowercase, then you will need to type the password in uppercase to login.	ST66705
Query/ Query Builder	All	The Query Builder currently uses a 24-hour format for timestamps. Attempting to run a query with a date range that includes a 12-hour timestamp format results in incorrect formatting of the timestamp.	ST78729
Query/ Query Builder	Local Storage	Currently, in a cross-connection query using Local Storage, Toad does not support quoted table alias names (example, the table alias "foo bar"). Quoted column names are supported.	ST86483

Toad Intelligence Central	All	When data includes high-precision numbers (i.e., those with a large number of decimal places), results from publishing to Intelligence Central may not always be as expected. In some cases, data may be truncated to include not more than 15 significant digits.	N/A
Toad Intelligence Central	N/A	**Background:** In Toad Data Point 3.5 or later, your Intelligence Central user name must be lower-case. **Issue:** In Toad Data Point 3.5 (or later), if you attempt to open a previously-saved connection to Intelligence Central 2.2 (or earlier) in which the user name contains upper-case letters, the connection will error. **Solution:** Upgrade to Intelligence Central 2.3.	N/A
User Interface	N/A	**Issue:** Toolbar sub-menus and buttons disappear when selected. If you experience this issue, use the following workaround. **Workaround:** 1. In Toad, select **Help | About** and select the **Application Data Directory** link to open this directory. Then exit Toad. 2. In the App Data directory, open the Session sub-directory and delete the **Analyst.tss** file. Restart Toad. 3. In Toad, select **Tools | Configuration Wizard**. Click **Finish** to close the wizard without selecting an option. The default option will be applied.	QAT-6045

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Third Party Known Issues

The following is a list of third party issues known to exist at the time of this release.

Feature	Platform	Known Issue	ID
Connections	DB2	If you are using the DB2 Client version 9.5, 9.7, or 10.1 in a Windows 8 or Windows Server 2012 environment, follow the instructions in IBM DB2 Technote 1618434: http://www-01.ibm.com/support/docview.wss?uid=swg21618434.	N/A
Connections	Excel	The following error is encountered when attempting to create a connection to an extremely large Excel file (for example, 20 MB or larger): "Microsoft. ODBC Excel Driver. System resource exceeded." For more information, see http://www.toadworld.com/products/toad-data-point/f/36/p/20201/40998.aspx. **Workaround:** Convert the Excel file to a CSV file.	N/A
Connections	Oracle	(Oracle 10.2.0.1 client only) Attempting to connect to an Oracle database From Toad using the 10.2.0.1 Oracle client results in the following error: "ORA-24909: call in progress. Current operation canceled". This is a known issue with this Oracle client (http://www.dbmotive.com/oracle_error_codes.php?errcode=24909). **Workaround:** Upgrade your Oracle client to a later version and connect to the Oracle database.	N/A

Feature	Platform	Known Issue	ID
	Oracle 11 only	When connecting to Oracle 11, you must enter the password in the proper case because passwords are case-sensitive.	N/A
Automation	All	Automation in Toad Data Point 3.3 or later requires .NET Framework 4.5. If you are using .NET Framework 4.0 without .NET Framework 4.5 (such as in Windows XP), you may encounter the following: • After running a scheduled Automation script, Toad generates an error message even though the script executes successfully. • In a Toad Intelligence Central environment, after running any published Automation script (scheduled or un-scheduled), Toad generates an error message even though the script executes successfully. **Workaround:** Upgrade your Windows OS to Windows 7 and install .NET Framework 4.5.	N/A
Data	ODBC- DB2 z/OS	In compatibility mode, the ODBC driver does not return enough information for the CommandBuilder to correctly generate update or insert statements.	N/A
Editor	Teradata	If you experience performance issues using a Teradata connection, especially when using code completion in the Editor, use the Teradata Non-X views (instead of the X views). ***To use Teradata Non-X views*** • Select **Tools	Options	Database	Teradata** and select the **Use Non-X views in Object Explorer** option.	N/A
Export Wizard/ One Click Export	All	To export to an Office 2003 or 2007 Excel instance, the Office Primary Interop Assemblies (PIAs) must be installed. You can install the PIAs from one of the following locations: **2003 PIAs:** http://www.microsoft.com/downloads/details.aspx?FamilyID=3c9a983a-ac14-4125-8ba0-d36d67e0f4ad&DisplayLang=en **2007 PIAs:** http://www.microsoft.com/downloads/details.aspx?familyid=59DAEBAA-BED4-4282-A28C-B864D8BFA513&displaylang=en	N/A
	Excel	Avoid using Excel for exporting if your data has numeric values that require a high precision because Excel's precision is limited to 15 digits. If you export numbers with more precision, the values are rounded. If you export boundary numbers (max, min), rounded numbers will exceed the data type limit.	N/A
Import Wizard	DB2	When importing data using the Add Query feature and selecting a Single new table, TIMESTAMP data types are mapped to DATETIME data types.	N/A
Object Explorer	Cloudera Impala	A view is represented as a table in Impala, so views display as tables in Toad. For more information, see https://issues.cloudera.org/browse/IMPALA-1697.	N/A
Object Explorer/ Database Explorer	Teradata	You may experience issues if you attempt to view object details and your Teradata .Net Data Provider version does not correspond to the Teradata database version to which you are connecting. Issues include: • Object details for a View containing a DATE data type	N/A

Feature	Platform	Known Issue	ID
		column do not display.	
		• Object details for a Table containing a NUMBER data type column do not display.	
		Workaround: Install the Teradata .Net Data Provider version that corresponds with the Teradata database version to which you are connecting. For example, if connecting to Teradata database version 14, use Teradata .Net Data Provider 14.11.	
Object Explorer/ Database Explorer	DB2 iSeries	The primary Key column of an iSeries table displays as Nullable in the Database Explorer even though the Not Null checkbox was not selected when creating the table.	N/A

Query Builder	Sybase ASE	**Cross-connection query:** Sybase has difficulty dealing with numeric literals in queries. You may encounter the following error:
		
		`Implicit conversion from datatype 'CHAR' to 'INT' is not allowed. Use the CONVERT function to run this query.`
		
		when attempting to execute a cross-connection query such as:
		
		`Select * from table where numeric_column = 50`
		
		Work-around: Change the query to something similar to the following using the cast function:
		
		`Select * from table where numeric_column = CAST(50 AS SIGNED)`
			ST96868

Query Builder	Cassandra and Excel/Access	**Cross-connection query:** A query between Cassandra and either Excel 2010 or Access 2010 might fail to execute and display a lost-connection error. **Workaround:** Upgrade to Excel 2013 or Access 2013 (or later).	N/A

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System Requirements

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 Space	800 MB to install Toad 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 System	Windows Server® 2008 Service Pack 2 (32-bit or 64-bit) Windows Server® 2008 R2 Service Pack 1 (64-bit) Windows Server® 2012 Windows Server® 2012 R2 Windows Server® 2016 Windows® 7 (32-bit or 64-bit) Windows® 8 (32-bit or 64-bit) Windows® 8.1 (32-bit or 64-bit) Windows® 10
.NET Framework	Microsoft® .NET Framework 4.5.1 **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 2015.** 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 2015. **Prerequisites for the 2015 Redistributable**—If you encounter a "Microsoft Visual C++ 2015 Redistributable is not installed correctly" error during Toad installation, do the following:

Requirement	Details
	1. Uninstall the Microsoft Visual C++ 2015 Redistributable using the Control Panel.
	2. Install the missing prerequisite software. See Universal C Runtime Update Prerequisites 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 Vista or Windows Server 2008, install Service Pack 2: https://support.microsoft.com/en-us/kb/948465.
	3. Run the *ToadInstaller.exe* again.
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 Requirements	**Web Browser** Microsoft® Internet Explorer® 7.0 or later **Screen** Toad supports screen resolutions up to 3200 x 1800 and display DPI settings up to 150%

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 9i, 10g, 11g, 11g R2, 12c, 12c R2 Toad has been tested on Oracle Exadata 2.0 running Oracle database 11g R2. Limited support of SQL Server® 2000 (Service Pack 3 or later) SQL Server 2005 (Service Pack 2 or later) and SQL Server 2005 Express SQL Server 2008 and SQL Server 2008 Express SQL Server 2008 R2 and SQL Server 2008 R2 Express SQL Server 2012 and SQL Server 2012 Express SQL Server 2014 Enterprise and SQL Server 2014 Express SQL Server 2016 **Notes:** • SQL Server Compact Edition is not supported.

Requirement	Details
	• Storage Management is not available on SQL Server Express.

IBM DB2 for LUW 9.5, 9.7, 10.1, 10.5, 10.5.0.5, 11.1

IBM DB2 for z/OS 9, 10, 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 4.1, 5.0, 5.1, 5.5, 5.6, 5.7

MariaDB 5.5.5, 10.2.8 (using MySQL provider)

SAP ASE 12.5.4, 15.0.2, 15.0.3, 15.5, 15.7, 16

SAP IQ 15, 16

SAP SQL Anywhere 10, 11, 12, 16

SAP HANA SPS 08, SPS 09, SPS 10, SPS 11, SPS 12, SAP HANA 2.0, SAP HANA 2.0 SPS 02

Teradata 12.0, 13.0, 13.10, 14, 15, 16

Access® 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.

Excel® 2003, 2007, 2010, 2013, 2016

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 installation. The engine must match the architecture (bitness) of Toad.

Requirement	Details
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

• 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® 8.3.4, 9.6.3

• 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

Note: For a list of databases that are not supported, see Known Issues in the Release Notes.

Requirement	Details
Cloud Database Service	Oracle databases running on Amazon EC2 SQL Azure **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 Connections	Toad has been tested with, and supports, the following Business Intelligence platforms: SAP Business Objects XI 3.1, 4.1 Oracle Business Intelligence Enterprise Edition 11g Salesforce.com® Microsoft SQL Server Analysis Services 2014 SP2 Google Analytics™ OData version 4 SharePoint® Server 2013
NoSQL Connections	Toad has been tested with, and supports, the following NoSQL platforms: Azure Table Services Apache Cassandra™ 3.11.0 Amazon DynamoDB Apache HBASE™ 1.2.6 Apache Hive™ 2.1.0 Cloudera Impala 2.2.0. Toad Data Point has been certified by Cloudera. MongoDB™ 3.4.6
Toad Intelligence Central	This release of Toad Data Point has been tested with Toad Intelligence Central 3.3 and 4.3. **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 4.3 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.
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.

Requirement	Details
	• Performance testing was conducted using Toad Data Point 64-bit.

Virtualization Support

Requirement	Details
Application Virtualization	When deploying Toad Data Point in a virtualization environment, for best results ensure the system accurately reflects the applicable client hardware and software requirements listed in this document. Toad Data Point 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.
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:

- A Power User cannot install Toad on a computer running Windows Vista Enterprise. This is a Windows limitation because Vista does not support Power User mode.
- (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, Vista standard 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 Vista user must be either an administrator or a standard user that belongs to an Vista Administrators group. Additionally, to enable full functionality in Toad when Vista's User Access Control security feature is turned on, the standard user must run Toad as an administrator. (Right-click the Toad icon on the Vista desktop and select **Run as administrator**.)
- (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.

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Product Licensing

To activate a trial license

1. In the Licensing dialog, enter your license (Authorization) key.
2. Enter the site message included with the license key.

To activate a purchased commercial license

1. In the Licensing dialog, enter your license (Authorization) key.
2. Enter the site message included with the license key.

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Getting Started

Contents of the Release Package

The Toad release package contains the following products:

1. Toad Data Point 4.3
2. Product Documentation, including:
   - Installation Guide
   - Online Help
   - Release Notes

Installation Instructions

See the *Toad Data Point Installation Guide* for more information.

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Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. It supports simultaneous operation with multilingual data. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan.

This release has the following known capabilities or limitations: During installation, if the user overrides the default installation directory location, the directory path cannot contain Unicode characters.

About Us

We are more than just a name

We are on a quest to make your information technology work harder for you. That is why we build community-driven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation.

Our brand, our vision. Together.

Our logo reflects our story: innovation, community and support. An important part of this story begins with the letter Q. It is a perfect circle, representing our commitment to technological precision and strength. The space in the Q itself symbolizes our need to add the missing piece—you—to the community, to the new Quest.

Contact Quest

For sales or other inquiries, visit www.quest.com/contact.

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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