Toad® for Oracle 17.1

Release Notes

Revised 5/23/2024

Contents

About Toad for Oracle

Toad for Oracle provides an intuitive and efficient way for database professionals of all skill and experience levels to perform their jobs with an overall improvement in workflow effectiveness and productivity. With Toad for Oracle you can:

- Understand your database environment through visual representations

- Meet deadlines easily through automation and smooth workflows

- Perform essential development and administration tasks from a single tool

- Deploy high-quality applications that meet user requirements; perform predictably and reliably in production

- Validate database code to ensure the best-possible performance and adherence to best-practice standards

- Manage and share projects, templates, scripts, and more with ease

The Toad for Oracle solutions are built for you, by you. Nearly two decades of development and feedback from various communities like Toad World have made it the most powerful and functional tool available. With an installed-base of over two million, Toad for Oracle continues to be the "de facto" standard tool for database development and administration.

Toad for Oracle resources

Toad World is a unique and valuable resource available to all Toad users. Toad World provides forums, blogs, videos, product information, Beta releases (when available), and Trial downloads for Toad products. Visit Toad World at: https://www.toadworld.com.

Two of the most-often used features of Toad World are the Forums and the Idea Pond.

- On the Idea Pond page, you can submit your ideas to improve Toad and vote for or comment on other ideas. The Toad team takes your suggestions seriously, and you may even hear back from one of our developers on the topic. We encourage all Toad users—from new to experienced—to let us know how we can improve Toad.

- On the Forum page, you can ask a question or start a discussion and view all other forums within the Toad community.

The Toad World blog pages feature a broad range of information, including topics of interest to our industry, as well as instructions from team members on how to use the latest Toad features.

The Toad for Oracle web-based training is a perfect accompaniment to your product license. This free training walks you through major product features and explains how to perform frequent tasks. You'll also see how to utilize time-saving automation functionality. You'll receive a certificate of completion for each course once you pass the accompanying test.

About this release

Toad for Oracle17.1 is a minor release, with enhanced features and functionality.

Toad for Oracle 17.1 includes component and requirement upgrades. These upgrades address security vulnerabilities previously identified in the third party component.

About Toad® for Oracle®Editions

Each Toad for Oracle Edition is packaged with additional Quest products to expand your experience.

Toad for Oracle Subscription

Toad for Oracle is now available with subscription licensing. The benefits of subscription include:

- All of the great, award-winning Toad features you have grown to love
- Access to our world-class support team, Knowledge Base, how-to videos and more
- Quest Auto Update keeping you on the latest version
- Online License Management making it easy to assign licenses to individuals, keep track of individual usage, manage organizations, and reassign unused or under-used licenses as needed to ensure license compliance
- Automatic Renewal ensuring that Toad for Oracle Subscription will be continuously available to users
- Invitations to training events like our Ask Toad and Toad Training Tuesdays series

The following products may be part of your Toad for Oracle Subscription Edition:

- Toad for Oracle
- Benchmark Factory for Databases
- Code Tester for Oracle
- Spotlight on Oracle
- SQL Optimizer for Oracle
- erwin Data Modeler Lite for Oracle

The following Toad for Oracle Subscription Editions are available:

Edition	Licensed
Toad for Oracle Base Subscription Edition	Toad® for Oracle®
Toad for Oracle Professional Subscription Edition	Toad® for Oracle® Professional
Toad for Oracle Professional DB Admin Subscription Edition	Everything in Toad® for Oracle® Professional DB Admin Module Add-on Sensitive Data Protection Add-on
Toad for Oracle Xpert Plus Edition	Everything in Toad® for Oracle® Professional DB Admin Edition SQL Optimizer for Oracle®

Edition	Licensed
Toad for Oracle Developer Plus Edition	Everything in Toad® for Oracle® Xpert Plus Code Tester for Oracle® Benchmark Factory® for Databases - Oracle Edition with 100 virtual users
Toad for Oracle DBA Plus with erwin Edition	Everything in Toad® for Oracle® Developer Plus Benchmark Factory® for Databases - Oracle Edition with 500 virtual users Spotlight on Oracle® erwin Data Modeler Lite for Oracle®
Toad for Oracle DBA RAC Plus with erwin Edition	Everything in Toad® for Oracle® DBA Plus with erwin Spotlight on Oracle® with RAC Option
Toad for Oracle DBA Exadata Plus with erwin Edition	Everything in Toad® for Oracle® DBA RAC Plus with erwin – Includes Exadata Spotlight on Oracle® with RAC and Exadata Options

NOTE: Spotlight on Oracle® includes Spotlight on Unix/Linux, Spotlight on Windows, and Spotlight on Oracle® Data Guard.

Toad for Oracle non-Subscription

Toad for Oracle non-Subscription uses offline term and perpetual licensing. This is Toad for Oracle's legacy licensing model.

The following products may be part of your Toad for Oracle non-Subscription Edition:

- Toad for Oracle
- Benchmark Factory for Databases
- Code Tester for Oracle
- Spotlight on Oracle
- SQL Optimizer for Oracle
- erwin Data Modeler Lite for Oracle
- Toad Data Modeler

The following Toad for Oracle non-Subscription Editions are available:

Edition	Licensed
Toad for Oracle Base Edition	Toad® for Oracle®
Toad for Oracle Professional Edition	Toad® for Oracle® Professional
Toad for Oracle Xpert Edition	Everything in Toad® for Oracle® Professional

Edition	Licensed
	SQL Optimizer for Oracle®
Toad for Oracle Developer Edition	Everything in Toad® for Oracle® Xpert
	Code Tester for Oracle®
	Benchmark Factory® for Databases - Oracle Edition
Toad for Oracle DBA with erwin Edition	Everything in Toad® for Oracle® Developer
	DB Admin Module Add-on
	Spotlight on Oracle®
	Benchmark Factory® for Databases - Oracle Edition
	erwin Data Modeler Lite for Oracle®
Toad for Oracle DBA RAC with erwin Edition	Everything in Toad® for Oracle® DBA with erwin
	Spotlight on Oracle® with RAC Option
Toad for Oracle DBA Exadata with erwin Edition	Everything in Toad® for Oracle® DBA RAC with erwin – Includes Exadata
	Spotlight on Oracle® with RAC and Exadata Options
Toad for Oracle DBA Edition	Everything in Toad® for Oracle® Developer
	DB Admin Module Add-on
	Spotlight on Oracle®
	Benchmark Factory® for Databases - Oracle Edition
	Toad Data Modeler®
Toad for Oracle DBA RAC Edition	Everything in Toad® for Oracle® DBA
	Spotlight on Oracle® with RAC Option
Toad for Oracle DBA Exadata Edition	Everything in Toad® for Oracle® DBA RAC – Includes Exadata
	Spotlight on Oracle® with RAC and Exadata Options

NOTE: The DB Admin Module can be added to any Toad Edition. Spotlight on Oracle® includes Spotlight on Unix/Linux, Spotlight on Windows, and Spotlight on Oracle® Data Guard.

Toad for Oracle on Mac

Toad for Oracle is now available for Mac using a new license specific for macOS. Click here to download the free trial.

It includes the great, award-winning Toad features you have grown to love with a few limitations:

- There is no installer so setting Toad to be read-only or disable internet access using command-line arguments during installation is not possible

- Scheduling tasks and **Utilities | Task Scheduler** are unavailable

- Auto Update is unavailable in the Subscription version

- The edition includes Toad for Oracle; additional Quest products are not included

- Team Coding does not support VCS integration

- Excel Instance and Microsoft Access formats for Export/Import features are unsupported

- Only executables bundled with Toad may be launched (e.g. Toad Script Runner); other external applications and **Utilities | External Tools** are unsupported

- Font choosers may appear to duplicate fonts due to truncation; Courier New, Courier New Baltic, and Courier New Greek, for example, may all show as Courier New

- Only clientless connections are supported

    - Direct connect works as usual

    - TNS and LDAP connections work as usual provided the network configuration files (e.g. tnsnames.ora, ldap.ora, and sqlnet.ora) are found on disk in either of these folders:

        - **$TNS_ADMIN**

        - **$ORACLE_HOME/network/admin**

    - If **TNS_ADMIN** and **ORACLE_HOME** are not defined environment variables you may place the network configuration files in a special folder created by Toad upon first launch for this purpose; only one of these folders will exist depending on your version of Toad:

        - **~/Library/Application Support/Toad for Oracle/TnsAdmin**

        - **~/Library/Application Support/Toad for Oracle Subscription/TnsAdmin**

The following Toad for Oracle on Mac Editions are available:

Edition	Licensed
Toad for Oracle on Mac Professional DB Admin Subscription Edition	Toad® for Oracle® Professional DB Admin Module Add-on Sensitive Data Protection Add-on
Toad for Oracle on Mac Professional DB Admin Edition	Toad® for Oracle® Professional DB Admin Module Add-on

Install

1. Download the Toad for Oracle on Mac zip file

2. Double-click the zip file; macOS will automatically extract it to the current folder

3. Optionally copy the app folder to the **Applications** folder; macOS will prompt you to do so upon first run if run from any other location

Uninstall

1. Quit Toad for Oracle

2. Move the app folder to **Trash**

3. Removing the app does not remove Toad for Oracle's configuration files; delete **~/Library/Application Support/Toad for Oracle** for complete removal

For more information about the products in your Toad for Oracle Edition and the minimum system requirements for running these products, see the Toad for Oracle Editions release notes at:
https://support.quest.com/technical-documents

New Features and Enhancements

Toad for Oracle 17.1

AIExplain

Using the power of AI, Toad examines your code providing an explanation of its purpose.

Note: AIExplain is a preview feature available to Toad for Oracle Subscription users. Refer to the Knowledge Base for instructions on how to enable it. Learn more about AI and Toad at Toad World.

Toad for Oracle on Mac

- Improved Editor and Data Grid fonts
- Toad's File menu is merged into the macOS File menu
- The TNS_ADMIN location is more prominent

IPv6

IPv6 support has been extended to the following features:

- Clientless database connections
- SSH
- S/FTP
- RExec

Connections

- More prominent connection color border on Connection and Window toolbar buttons
- Menu items added to the "Session" menu allow for disconnecting sessions without closing associated windows
  - "Disconnect" and "Disconnect all" will leave the connection toolbar button intact as well as all associated windows, but the underlying session to the database will be terminated

- "End Connection" in previously releases has been renamed "Close Connection" and functions the same as it always has; the underlying Oracle session is terminated and all associated windows are closed
- Audit and Access banner text is displayed for clientless connections
- Option to allow/prevent access to the SYS.USER$ table, allowed by default (**View | Toad Options | Oracle | General | "Check for access to SYS.USER$"**)
- Option to include/exclude "as SYSDBA" in Connection toolbar button caption, shown by default (**View | Toad Options | Toolbars/Menus | Toolbars | "Include 'as SYSDBA'"**)

Automation Designer

- Actions and apps can be disabled to prevent them from running
- Action properties can be modified in bulk
- Generate Schema Script action supports variables in the "Top Level Directory" field
- Generate Schema/Database Script and Compare Schema/Database actions support variables for connections and source/target schemas
- Export Dataset action now executes all statements in a script and exports the results of SELECT statements
- Execute Script action will automatically check ORA error codes added to the list of ignored errors
- Execute Script action property to "Notify on script error" suppresses all errors when unchecked, shown by default
- Email action supports content type (Plain Text or HTML)
- Improved saving of the underlying data file to better support multiple, concurrent running Toad instances

Schema Browser

- Quick filters can be saved per connection
- Ctrl+F in the left side places focus in the "Quick Filter" edit
- Commit/Rollback buttons enable only when in transaction
- Tablespace "Free Space" tab displays storage used by recycle bin
- "Create insert statements for all rows" supports "Data Masking"
- Tablespaces "Objects" tab now has a button to rebuild selected objects allowing you to move them to a new tablespace
- Tablespaces "Add > Datafile" now works across multiple selected tablespaces
- Tables "Indexes" tab has "Created"
- Tables "Stats/Size" tab has "Include indexes" checkbox
- Favorites persists node expansion state
- Some commands have configurable shortcuts (**View | Toad Options | Toolbars/Menus | Shortcuts**)

Compare Schemas

- Comparison includes EDITIONABLE

Data Grids

- Blob preview for PDF, XLSX, DOCX (first page), Text, Image, and Hex
- Customizable context menu

Trace File Browser

- Advice for more wait events
- "Wait Summary" histogram
- The worst performing SQL is highlighted in red
- SQL binds driven by a CURSOR loop are automatically identified
- "File Header" tab added to better organize data previously shown on the "Query Summary" tab
- "Wait Summary" tab includes min/avg column
- Notes can be added to a SQL statement
- "File Preview" includes start/end times, executions, fetches, and parses

Create/Alter Schedule/Scheduler Job

- Buttons for sample start and end times

Script Execution

- Summary grid summarizes the execution/fetch/total times, number of rows, and the SQL of the other data grids

Debugger

- Breakpoints persist between debugging sessions

Workspaces

- Auto Save and Load options are separate

Create Unified Audit Policy

- Added support for CONTAINER=ALL when connected to a root CDB

Toad Script Runner

- Use F2 to toggle full screen edit area
- Connection info shown in title bar matches Toad
- Improved tab navigation with a dropdown arrow to list all tabs

Session Browser

- Start and stop tracing across all database sessions
- Active filter name is displayed in the toolbar

Login Window

- Option checkboxes have been moved to the Settings dropdown menu, e.g. Save Passwords
- TNSPING button returns the output of tnsping.exe verbatim
- Focus is restored to the grid column that was focused when the window was last closed
- Option added to place focus in the grid or right side when opened

Spool SQL

- OCI Describe events are shown

Toolbars

- Close a connection/window by middle clicking on its toolbar button

Create/Alter Datafile

- Add multiple datafiles at once
- Find/Copy now lists the default disk group (ASM)

Tablespace Map

- Display the contents of a single datafile in multi-file tablespaces

Export DDL

- Much faster when exporting multiple objects

  Note: The order of statements and number of line breaks may differ when using "One file per schema" or "One file per object type" options

Team Coding

- Improved performance working with multiple objects, e.g. check in/out

Workspaces

- "Save" saves without confirmation
- "Save as" added
- "Delete" and "Rename" options show additional info about the workspace

Toad for Oracle 17.0

Toad for Oracle on Mac

Toad for Oracle Professional DB Admin edition is now available for Mac. Click here to download the free trial.

Oracle 23c

- Support for new features in Create/Alter windows, generated scripts, and elsewhere as appropriate:
  - ANNOTATIONS
  - Boolean datatypes
  - DEFAULT ON NULL FOR INSERT AND UPDATE
  - DOMAINS
  - IF [NOT] EXISTS
  - JSON-Relational Duality Views
  - PRECHECK Constraints
  - Schema-level privileges

Editor

- Data grids can be pinned allowing for multiple statements to be executed within a single tab without losing the results of the previous execution

- Option added to trim whitespace when saving files

- Improved performance when the Navigator option to "Show references" is unchecked; also applies to the Schema Browser when viewing PL/SQL objects

- Improved performance of parameter assistance for Oracle built-in functions defined within the SYS.STANDARD package, e.g. TO_CHAR()

- Added an option to the Script Output tab that synchronizes the Editor caret position with the active Script Output data grid and vice versa

- Exporting all Script Output data grids to an Excel file now produces a summary sheet

- Old, automatic backups are purged for improved performance

- Option added to enable utPLSQL integration if it is installed; unchecking this option improves performance by eliminating internal queries, but disables all Editor support for utPLSQL test suites

Connections

- SSH connections can be made natively without needing PuTTY or similar

- Clientless connections support TCPS protocol

- Common users having the SET CONTAINER privilege can easily switch between CDB and PDB instances via the Connection Bar context menu

Connection Colors

- An option has been added to fill Toad's title bar with the active connection's color when using a color scheme and connection colors

Trace File Browser

- Improved workflow when loading files from the database server

    - Option to exclude non-SQL trace files

    - Filter by file content, e.g. SQL ID, tablename, or any text that may exist in the trace file

    - Limit files to only those produced within a specified timeframe

    - Option to preview files after retrieval

Object Palette

- Option added to "Show Subobjects" that displays related objects (e.g. table constraints, grants, indexes, triggers, etc.) just like the Schema Browser's "Show LHS Subobjects" feature

Automation Designer

- Improved Action palette

- Export Dataset action can pass variables to SQL files as parameters

Data Grids

- Columns can be sorted even when the query contains an ORDER BY clause

- *Find Data* and *Filter Data* from the context menu allows searching and filtering across multiple columns

- A refresh button has been added to the Editor Data Grid to reexecute the query

- Single Record Viewer supports copying the column header and value to clipboard

Compare Schemas

- Options added to verify that tablespaces and Oracle features exists in the target database; any violations that will cause the sync script to fail are identified in the Difference Details tab

Generate Schema Script

- Added the ability to combine related objects when generating one script per object; for example, synonyms and grants with their target objects, type/package with its body, indexes with their table, etc.

- An option has been added to include schema name in object filenames

- An option has been added to include private synonyms for objects when exporting

Schema Browser

- Improved performance when selecting Procedures, Functions, and Packages

- Added the ability to pin quick filters

Session Browser

- "Kill Session" button added to the Locks tab

- "Status" column added to the Locks tab

Import Table Data

- Added the ability to create a new table from the Import Table Data wizard prior to importing

Workspaces

- New command line parameter for launching Toad and opening a specific workspace, e.g. `Toad.exe -workspace my_favorite_workspace_name`

Debugger

- A new "Check Privileges" menu item is available from the main Debug menu to check the active connection for the privileges required to debug

DB Health Scan (Preview)

DB Health Scan is a new window similar to DB Health Check with improved visualization of results. This window is a preview feature with additional improvements planned for a future release.

SQL*Net Editor

- Added support for SSL parameters

TNSNames Editor

- Added support for Retry Delay, Retry Count, and Compression parameters

Toad for Oracle 16.3

Editor

- New minimap with options to control position and scale
- Support for font ligatures
- Revamped brace highlighting options to provide additional behavior
- Search across all open Editor tabs from Find in Files/Editors
- Auto Replace options to include/exclude replacement within comments and strings
- Option to lock tab positions when multi-line tab mode is enabled

- Reload file/database object improvements to support reloading all items that have been modified

- Object name highlighting option to highlight dependencies from other schemas

- Navigator option to exclude PL/SQL parameters from sorting

- Navigator option to indicate PL/SQL parameter position

- Navigator option to show references

- Context menu is customizable

- Refactoring item to replace package constant references with their literal values

- Format Code can be canceled

- Additional user experience improvements

Schema Browser

- Object quick filter support for regular expressions

- Data tab filter dialog automatically adds quotes for IN/NOT IN conditions

- Data tab filter dialog options to save size/position

- Scheduler Jobs displays "subname" field on the Run Log tab

- Tables | Copy to another schema allows setting options as the default values used each time the window opens

- Tables | Copy to another schema options to create indexes/constraints when creating non-existent tables in the destination schema

- Create/Alter Materialized View option to specify the refresh group

- ID column added to the Arguments tab for PL/SQL

- Option to lock tab positions when multi-line tab mode is enabled

Color Schemes/Dark Mode

Additional schemes

Automation Designer

- New action to run reports configured in the Reports Manager

- New action to perform single column import

- Running apps can be canceled

- Execute Script action option to suppress the progress dialog

- Action palette buttons rearranged to be more intuitive

- Expanded copy to clipboard support to areas that previously lacked it

Data Grids

- Paste from clipboard across multiple selected cells

- Sort on multiple columns

- Context menu, Appearance submenu improvements

Export Dataset

- 7-Zip and gzip compression

- Query executed when "Display all results in grid" is unchecked can be canceled

- Flat File export option to set the end of line style

- Excel File export option to retry when the file is locked by another process

- Excel File/Instance export option to allow formulas which sets the Excel column formatting accordingly

Window Bar/Menu

- Ability to rename a window by right-clicking on its Window Bar button

- Option to show individual Editor tabs on the main Window menu

Login Window/Connections

- Create multiple logins at once applying the same properties across databases defined in tnsnames.ora

- Reconnect Lost Connections feature added to only reconnect sessions that are known to be disconnected

- Test Connections from the Login window improvements to update password if an ORA-01017 is raised and multiselect output

- Filter tabs when previously used connections are displayed using one of the "Tabbed by" views

- Toad Script Runner clientless connection support

- Retry button on the connection error dialog

- Messages configured using the SEC_USER_UNAUTHORIZED_ACCESS_BANNER and SEC_USER_ AUDIT_ACTION_BANNER properties in the server's sqlnet.ora are displayed and acceptance is required to make the connection

- Custom field values can be modified when editing multiple login records

Export DDL

- Option to group object DDL into folders by their object type

- Option to exclude BEQUEATH clause from Views

SQL Recall

- Improved workflow when moving items from recently used to saved

- Options moved from the toolbar to a dedicated dialog to improve toolbar usefulness

- Additional display options and usability improvements

Manage User Settings

- Automatically backup key configuration files with options to configure what is backed up, the frequency, and a discard policy for old backups

- Ability to reset user files and selectively restore configuration files from a backup

Miscellaneous

- Team Coding automatically remaps object IDs which is necessary when controlled objects have been dropped and recreated

- Code Analysis option to limit the number of violations per rule type

- Compare Schemas produces an overall summary file in addition to each comparison's individual report when the multiple schemas option is used

- Various improvements to document recovery

- Various improvements to Master Detail Browser

- Many bugs fixes and other enhancements

You can find the most up-to-date list of new features for this release in the *Toad for Oracle Release Notes* found at: https://support.quest.com/toad-for-oracle/technical-documents.

Discontinued Features

Knowledge Xpert. Knowledge Xpert is no longer available on Toad World. Beginning with release 13.1, Toad components no longer reference the online Knowledge Xpert.

Ask a Question. The **Go to Toad World** and **Ask a Question** commands on the Toad World toolbar have been replaced. To ask a question, click the **Forums** toolbar button to go directly to the forum. To go to Toad World, click the **Forums** or the **Browse Blogs** toolbar buttons. You can also use the Help menu: **Help | Toad World | Forums**. This change is found in Toad for Oracle 13.1 or later.

Integration with Toad Intelligence Central. Beginning with Toad for Oracle 13.1, Toad no longer provides integration with Toad Intelligence Central. The Toad Intelligence Central window is not available and you cannot publish scripts, files, Code Analysis results, and other resources to a Toad Intelligence Central server using Toad for Oracle. You cannot connect to Toad Intelligence Central through Toad for Oracle.

Resolved issues

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

Toad for Oracle 17.1

The following list of resolved issues includes issues received from the Toad for Oracle forum, Toad Beta users, and exception data collected from the Toad Improvement Program.

Issue ID	Link to Forum Post	Resolved Issue
TOR-6106	link	Connections: Timezone data is incorrect when querying some databases using "no client" mode.
TOR-7625	link	Color Schemes: Some buttons on the login window lack a border when using color schemes on Windows Server 2016.
TOR-7709	link	Toolbars: The window menu, shown to the left of the File menu for maximized windows, duplicates its menu items each time it is clicked.
TOR-7768	link	Connections: The connection bar "Containers" menu is out of sync after an ALTER SESSION SET CONTAINER statement is executed in the Editor.
TOR-7824	link	Script Execution: The elapsed time shown in the progress dialog is incorrect in some cases.
TOR-7839		Execution: Access Violation occurs when using "no client" mode and selecting RAW datatype over a database link.
TOR-7868	link	Connection Bar: The "Reconnect all" menu item is disabled at times it should be enabled.
TOR-7874	link	Editor: Compiling a package having an error indicates the wrong line as having the error.
TOR-7880	link	Export Dataset: The default extension for Excel should be .xlsx and for Access it should be .accdb.
TOR-7882	link	Mac: Editor takes a long time to load if CAPS lock is enabled.
TOR-7888	link	Editor: Goto Line (Ctrl+G) throws an exception in some cases.

Issue ID	Link to Forum Post	Resolved Issue
TOR-7906		Data Grids: ORA-00903 error is raised when updating data of a LONG RAW field.
TOR-7909	link	Schema Browser: Tab key does not advance through all fields properly in the Filter/Sort dialog.
TOR-7912		Debugger: Access Violation occurs in some cases if the background session is disconnected.
TOR-7955	link	Connection Bar: Opening a window from the "Frequently used" menu of an inactive session's connection bar button opens the window for the active session, instead.
TOR-7963		Export Dataset: Exporting to Excel does not include data for CLOB fields exceeding 32767 characters.
TOR-7969	link	Workspaces: Access Violation occurs when loading a workspace in some cases.
TOR-7971	link	Automation Designer: The Compare Schemas action uses CREATE instead of CREATE OR REPLACE in the sync script when executed using a parameter file that was created with Toad for Oracle 16.3 or older.
TOR-7982		Code Analysis: Running Code Analysis with the SQL Scan option enabled causes Toad to disappear in some environments.
TOR-7988	link	Schema Browser: The Alter Table dialog includes the schema in ALTER TABLE RENAME COLUMN statements when the "Show SQL without schema" menu item is chosen.
TOR-7989	link	Toolbars/Menus: Setting a custom shortcut for Print Preview does not work.
TOR-7996	link	Workspaces: Creating a new Editor tab after opening a workspace does not always activate the new tab.
TOR-7997	link	Editor: The Load DB Object window has an empty, gray panel when the "Show source" checkbox is unchecked.
TOR-8002		Connections: The Reconnect button is unavailable on the dialog shown for ORA-00045 errors.
TOR-8006		Automation Designer: The Format Files action modifies reserved word character case and does not format the code
TOR-8007	link	Automation Designer: Variable substitutions are not made to the Export Dataset action's SQL text if the SQL has been modified after mapping substitution variables to Automation Designer variables.
TOR-8012	link	Session Browser: Quickly clicking on nodes in the left side navigator causes the Session Browser to process each click and slow down for a bit as it catches up.

Issue ID	Link to Forum Post	Resolved Issue
TOR-8040		General: Long error message text is truncated in error dialogs if using a dark color scheme.
TOR-8044		Schema Browser: The Tables Script tab truncates constraint text longer than 4000 characters.
TOR-8047	link	Master-Detail Browser: An error occurs when setting a filter having a comment on the first line.
TOR-8056		Schema Browser: Filters set on the Invalid Objects tab do not affect indexes.
TOR-8063		Connections: Connecting to an Oracle Cloud database without a client raises an ORA-12506 in some cases.
TOR-8081	link	Statspack Browser: Copying a SQL Summary row to clipboard causes Toad to freeze for a while..
TOR-8083	link	Data Import Wizard: Custom date format does not accept dot or dash as date separator.
TOR-8086	link	Script Execution: DESC PACKAGE excludes functions and procedures without parameters.
TOR-8093	link	Data Grids: Saving a blob to file omits the extension if it is not specified in the filename.
TOR-8096	link	Data Grids: CTRL+F to find data selects wrong columns.
TOR-8103		Project Manager: Files loaded in external application always use the default association from Windows instead of the association defined in the Project Manager settings.
TOR-8116	link	Login Window: Connection made to the wrong database after editing a previously used connection's alias in the grid and selecting a different database from the right side dropdown and clicking Connect.
TOR-8117	link	Data Grids: Record Count does not respect filtered records.
TOR-8172	link	Automation Designer: Changing the output file extension of an Export Dataset action using Excel file format from .xlsx to .xls will change the extensions of other Export Dataset actions also exporting to Excel file format.
TOR-8178		Automation Designer: Format Files action introduces a mix of CRLF and LF end of line characters.

Toad for Oracle 17.0 Patch 1

The following list of resolved issues includes issues received from the Toad for Oracle forum, Toad Beta users, and exception data collected from the Toad Improvement Program.

Issue ID	Link to Forum Post	Resolved Issue
TOR-7680		Script Manager: Access Violation occurs when running scripts in 64-bit Toad.
TOR-7681	link	Toad for Oracle on Mac: Animation on the Script Execution dialog looks bad.
TOR-7682		Toad for Oracle on Mac: "Task Manager not running" error on startup.
TOR-7683		Toad for Oracle on Mac: Compiling a Team Coding controlled object in the Editor using shortcut (F9) results in endless loop.
TOR-7684	link	Toad for Oracle on Mac: Cannot drag/drop files from Finder to Editor.
TOR-7686		Alter Database Link: Incorrect username for connection is shown.
TOR-7687		Editor Options: The Tab stop setting is not being saved when Toad closes.
TOR-7694	link	Editor: The Navigator tree scrolls each time it refreshes.
TOR-7704	link	Toad for Oracle on Mac: Find Next (F3) does not work properly if the find dialog is not showing.
TOR-7705	link	Toad for Oracle on Mac: Grid lines are invisible in some windows.
TOR-7711		Schema Browser: "Invalid table name" error is raised when generating scripts for Tables, Views, and Materialized Views for users lacking the SELECT ANY DICTIONARY privilege.
TOR-7712		Import Table Data: Importing from a Fixed Field Width file raises an incorrect error regarding field size and nothing is imported.
TOR-7715		Automation Designer: Upgrading from Toad for Oracle 16.3 to 17.0 raises an error at startup for ToadActions.dat if the 16.3 datafile contains a Data Pump Import action.
TOR-7717		Debugger: "Invalid Oracle Home" error is raised when debugging if the session is made without a client and no clients are installed.
TOR-7718	link	Toad for Oracle on Mac: Cannot save BLOB data from the data grid BLOB editor.
TOR-7737		Toad for Oracle on Mac: Poor font quality.
TOR-7753		Login Window: LDAP dropdown list is slow to load when in clientless mode.
TOR-7763		Toad for Oracle on Mac: CAPS lock can get out of sync.
TOR-7764		Toad for Oracle on Mac: The TNS_ADMIN location is not as apparent as it could be.
TOR-7838		TNSNAMES Editor: Adding a new service is nonfunctional.

Toad for Oracle 17.0

The following list of resolved issues includes issues received from the Toad for Oracle forum, Toad Beta users, and exception data collected from the Toad Improvement Program.

Issue ID	Link to Forum Post	Resolved Issue
TOR-2632		Editor: "Refactor > Remove Subqueries" generates invalid SQL when aggregate functions are present
TOR-6414	link	Data Grids: Strings exceeding the width of the control do not show a trailing ellipsis
TOR-7086	link	Triggers: Incorrect DDL is generated for disabled triggers containing a header comment and a WHEN clause
TOR-7087	link	Login: When grouped by multiple columns, deleting records from an expanded group collapses all other expanded groups
TOR-7089	link	Session Browser: Locks tab does not select the top row following a refresh
TOR-7101	link	Schema Browser: Favorites folder cannot be renamed
TOR-7102	link	Schema Browser: Scheduler Job script is invalid when the job has unnamed arguments
TOR-7103	link	Alter Tablespace: Maximum size is changed to UNLIMITED in some cases
TOR-7112	link	Generate Schema/Database Script: IN MEMORY and COMPRESSION options are ignored
TOR-7117		Session Browser: Selected row in the Open Cursors tab changes after activating a different tab and returning to Open Cursors
TOR-7130		Insert Table Data: Some rows are not imported following a constraint violation when the "Use Array DML" option is checked
TOR-7133	link	Workspaces: Unicode characters in the Editor are lost
TOR-7134	link	Schema Browser: Scheduler Job run log throws an error on Oracle database 10g Release 1
TOR-7135	link	Export Dataset: Auto detection of schema doesn't work with a SELECT from a table across a database link containing a '.' in its name
TOR-7176	link	Schema Browser: Sending a trigger to the Editor ignores the Editor option to exclude schema name when loading objects
TOR-7178	link	Code Insight: Results not shown when invoked within SQL containing a subquery.
TOR-7181		Subscription Licensing: An Access Violation occurs after upgrading Toad in

Issue ID	Link to Forum Post	Resolved Issue
		some cases
TOR-7185	link	Schema Browser: Incorrect script is generated for tablespaces that are encrypted, but not compressed
TOR-7195	link	Schema Browser: Rebuild Table window does not allow new columns having a name longer than 30 characters on Oracle database 12g Release 2 and newer
TOR-7201		Automation Designer: Execute Script action fails if the output file or path contains variables
TOR-7202		Team Coding: The Team Coding Browser VCS tab hangs when using Azure DevOps Services (TFVC)
TOR-7210	link	Data Grids: Sorting a column no longer focuses the sort direction radio group by default
TOR-7211	link	Change Password: ORA-00922 is raised when changing password if a password verify function has been configured
TOR-7217		Data Grids: The columns dropdown on the Filter tab of the Filter/Sort Data dialog is not wide enough to show long column names
TOR-7232	link	Editor: The prompt to reload files modified externally is shown even after choosing "Yes to All" at the initial prompt and then deactivating and activating Toad
TOR-7233	link	Team Coding: The compare dialog does not show Unicode characters
TOR-7237	link	Trace File Browser: The modified date of some files is not displayed
TOR-7240	link	Trace File Browser: Poor contrast when using a dark color scheme
TOR-7257		Editor: Refactor | Resolve Package Constants does not work for SQL containing a single package constant reference
TOR-7262	link	Code Insight: Very slow filtering of results while typing in some cases
TOR-7264	link	Code Analysis: SQL Scan does not work when using proxy user authentication
TOR-7266	link	Data Grids: Popup Editor throws a "Cannot modify a read-only dataset" error when formatting text
TOR-7274	link	Data Grids: Using the DEL key to clear a cell throws an "Invalid value for field" error when the column has a foreign key
TOR-7319	link	TNSNames Editor: Some parameters within the SECURITY section are unsupported
TOR-7332		Color Schemes: Schemes are not fully applied to SQL Recall after changing the color scheme and restarting Toad
TOR-7347		Compare Schemas: Schema name is excluded in the sync script if the "Include

Issue ID	Link to Forum Post	Resolved Issue
		Schema in Migration DDL" and "Format before comparison" options are both checked
TOR-7349	link	Script Execution: The SQL feedback text is formatted poorly or incorrect with some statements
TOR-7358	link	Code Insight: PL/SQL objects are not shown in the list in some cases.
TOR-7376	link	Explain Plan: Toad sometimes connects to the wrong RAC instance when the "Separate session" for Explain Plan option is set
TOR-7408	link	Automation Designer: Export Dataset action changes the file extension of the results file in some cases
TOR-7409	link	Color Schemes: The selected node in some tree views is difficult to see with some color schemes
TOR-7410	link	Schema Browser: The left side navigator does not update its selected node to reflect the caret position after searching for text in the Script tab of a package
TOR-7423		Team Coding: Access Violation occurs after dropping materialized views
TOR-7424	link	Schema Browser: The generated script for Materialized View is incorrect when the "Add to refresh group" option is checked in the script generation options
TOR-7438		Editor: The automatic backup feature does not clean up stale files and references which can lead to Access Violations and general performance issues in time
TOR-7479		Test Connections: An Access Violation can occur when closing the dialog immediately after testing connections
TOR-7480	link	Automation Designer: FTP action does not observe variables in filenames to download
TOR-7593		Schema Browser: The right side/detail view when selecting a table is scaled incorrectly in same cases when using high-definition resolutions
TOR-7596		Import Table Data: Access Violation occurs when importing from CSV files having fields with more than 32k bytes of data
TOR-7600		DB Health Check: Bad results are generated for the "Foreign Keys with mix of nullable and not nullable columns" option

Toad for Oracle 16.3

The following list of resolved issues includes issues received from the Toad for Oracle forum, Toad Beta users, and exception data collected from the Toad Improvement Program.

Issue ID	Link to Forum Post	Resolved Issue
TOR-540	link	Code Insight: Assistance is not provided when invoked after an unmatched parenthesis.
TOR-1300	link	Code Insight: Join conditions are inserted incorrectly when the condition partially exists in the text.
TOR-6535	link	Team Coding: Filter exclusions are not working completely.
TOR-6537		Find Dialog: Incorrect messaging when a match is not found in some cases.
TOR-6545		Team Coding: Merging a table that is out of sync causes data loss.
TOR-6550	link	Editor: A file split over multiple tabs incorrectly prompts to reload the file when editing, saving, and then switching to another tab for the same file.
TOR-6551		Auto Optimize SQL: Invalid password message is seen for globally authenticated users.
TOR-6552	link	Automation Designer: The Execute Script action does not support collection of DBMS OUTPUT.
TOR-6558	link	Schema Browser: The Jobs, Script tab uses DBMS IJOB when the connection lacks privileges on it.
TOR-6573		Trace File Browser: Incomplete results when loading a multipart trace file.
TOR-6574		Editor: Executing a "ROLLBACK TO savepoint" also executes a generic ROLLBACK.
TOR-6597	link	Toad Command Line Script Runner: Fatal Error occurs when the current working directory is not the directory containing tsr.exe.
TOR-6602	link	Compare Schemas: Comparing a snapshot file to a schema results in an incorrect sync script for tables that have constraints/indexes named differently from what they are in the snapshot.
TOR-6607	link	Team Coding: Stack Overflow error occurs when Subversion URL includes a trailing slash in some environments.
TOR-6608	link	Workspaces: Toad closes unexpectedly when loading a workspace in some cases.
TOR-6609		Editor: Script execution takes a long time to start in some cases.
TOR-6619	link	Options: Thousands separator no longer allows for space character.
TOR-6624	link	Schema Browser: The "Deps (Uses)" and "Deps (Used By)" tabs have UI defects when using a dark mode color scheme.
TOR-6632		Data Grids: Pasting multiline text into a grid cell only retains the first line of the text.
TOR-6633	link	Editor: Rearranging tabs causes the desktop layout to become corrupt in some cases.
TOR-6638	link	Schema Browser: Space character incorrectly inserted into "class" when viewing Java Source code.
TOR-6640	link	Options: New file types are not saved.
TOR-6645	link	Toad Script Runner: "Execute via Script Runner" fails to establish connection when Toad's connection is a direct connection without using a client.

Issue ID	Link to Forum Post	Resolved Issue
TOR-6646	link	Editor: When using split editor mode the caret position is not retained following a format code in the secondary instance.
TOR-6650	link	Automation Designer: Import Table Data action gives incorrect message that it cannot import into a read-only connection in some cases.
TOR-6656	link	Data Grids: Mouse-wheel scrolling in grouped grid causes collapsed sections to expand.
TOR-6661		DBMS Output: Polling for output raises an ORA-06502 error in some cases.
TOR-6678	link	Automation Designer: Drag/drop actions onto a collection action, e.g. If..Then..Else, Iterators, etc., causes the order of dropped actions to be reversed when the Automation Designer is closed and reopened.
TOR-6681	link	Data Grids: Poor sizing/alignment of the summary panel.
TOR-6682	link	Data Grids: Copying data via Ctrl+C and pasting into Excel includes the column headers.
TOR-6683		DBMS Output: The option to trim whitespace only works for the first 10 lines of output.
TOR-6686	link	Generate Database Script: Roles are sorted alphabetically instead of by order required for creation when the "Object privileges granted to roles" option is not checked.
TOR-6693	link	Compare Schemas: Comparing a snapshot file to a live schema includes public synonyms when the option to include public synonyms is not checked.
TOR-6697		Object Compare: The object type dropdown may be slow to load on large databases or over slow connections.
TOR-6702	link	Toolbars: The active connection on the Change Session dropdown menu is identified by a checkbox which is difficult or impossible to see using some dark mode schemes.
TOR-6710	link	Master-Detail Browser: Long table names are truncated in detail pane.
TOR-6718		Editor/Schema Browser: Access Violation occurs when selecting from a table having ANYDATA column(s) if the data contains anything other than VARCHAR2, DATE, or NUMBER.
TOR-6719		Editor: Execute via Toad Script Runner/SQL*Plus throws an ORA-00942 when the current schema selection is not the logon schema and selecting from a table owned by the current schema.
TOR-6722		Connections: No prompt to change password when the password is expired and when connecting without an Oracle client.
TOR-6737	link	Toolbars: The blue border used in the Connection/Window bar to identify buttons for the active connection is difficult to see when using a dark color scheme.
TOR-6738		Connections: "Invalid release" error is raised when connecting to some databases.
TOR-6743	link	Schema Browser: PARALLEL_INSTANCES attribute is missing from the Scheduler Jobs Info and Script tabs and the Create/Alter Scheduler Job window.

Issue ID	Link to Forum Post	Resolved Issue
TOR-6749	link	Schema Browser: Wrong popup menu is shown when multiple packages are selected in some cases.
TOR-6750	link	Connections: The most recently used connection is not automatically selected in the Login window when connections are grouped in some cases.
TOR-6755	link	Editor: An externally modified file may result in duplicate confirmation prompts to reload the file.
TOR-6786		Schema Browser: Altering a tablespace datafile that has the size specified in MB will change to display GB after setting the max size to unlimited.
TOR-6824	link	Master Detail Browser: Custom master query is lost after setting an invalid filter.
TOR-6827		Schema Browser: Materialized View, Deps (Used By) tab does not list views that query the materialized view.
TOR-6828	link	Editor: Executable line indicators (blue dots) in the margin appear on lines that are inaccessible when debugging, e.g. lines within anonymous blocks.
TOR-6837	link	Schema Browser: The selected object may scroll out of view after changing the filter such that more objects are displayed.
TOR-6849		Editor: Toad stops responding and crashes after moving one of the splitters in some cases.
TOR-6863	link	Find Dialog: The Whole Words option is checked when the find dialog is shown after doing a Describe (F4).
TOR-6868	link	Schema Browser: The selected and focused row indicators on the Tables, Triggers tab may be out of sync.
TOR-6870	link	Master-Detail Browser: Long table names are truncated in detail pane.
TOR-6882	link	DBMS Output: Polling for output omits blank lines in the output if they occur beyond the 10th line.
TOR-6901		Connections: Importing connections does not update/overwrite properties, e.g. passwords, of existing connections for the same user@database.
TOR-6903	link	Editor: Changing the caret position within a package is slow after connection loss if the database has utPLSQL installed.
TOR-6910	link	Editor: Prompting to save empty tabs that are not loaded from a file is unnecessary.
TOR-6917		Connections: LDAP connections fail with an "" is not a valid release" error if the DIRECTORY_SERVERS value in ldap.ora lacks a primary directory port.
TOR-6922	link	Login: Custom columns that have been fixed and then removed from the grid cannot be added back.
TOR-6930	link	Schema Browser: Materialized View Script tab lacks the USING TRUSTED CONSTRAINTS clause for views created with the BUILD DEFERRED and USING TRUSTED CONSTRAINTS clauses.
TOR-6933		Editor: CONNECT statement does not work for externally authenticated connections.
TOR-6938	link	Schema Browser: Queue Script tab shows incorrect DDL for sharded queues

Issue ID	Link to Forum Post	Resolved Issue
		and these queues are not properly shown in the Alter Queue window.
TOR-6942		Team Coding: Objects with double quoted names are not supported and cause errors.
TOR-6947		Object Palette: Action Console is missing from the context menu.
TOR-6954	link	Code Analysis: Double clicking a rule violation should display a popup dialog with additional information, but it is blank.
TOR-6968	link	Auto Optimize SQL: Unhelpful error message when sending SQL from the Editor and the connection is made without a client and no clients are installed.
TOR-6970	link	HTML: Error message that Microsoft Edge cannot read and write to its data directory is seen in dialogs where HTML is displayed in some environments.
TOR-6974		Schema Browser: Expanding the Constraints or Indexes sub-objects nodes beneath a Table results in ORA-00942 when connected to an Oracle 21c database.
TOR-6976		Export Dataset: Timestamp values export as a date, i.e. fractional seconds and time zone are eliminated, and the time is omitted if it is 12:00 AM/00:00.
TOR-6977	link	Schema Browser: Alter Table dialog is slow to load and eventually Toad crashes if there are many constraints.
TOR-6978	link	Statspack Browser: Grid sorting does not work.
TOR-6979		Schema Browser: Selecting multiple tables and using Create Script omits NOT NULL constraints in some cases.
TOR-6981	link	Statspack Browser/AWR Browser: Checked snapshots are not automatically scrolled into view.
TOR-6983		Alert Log Viewer: Some dates are missing if the loaded log file contains multiple date formats.
TOR-6985	link	AWR Browser: ORA-00907 is raised when trying to create a snapshot on Oracle Database 10gR2.
TOR-6988		Workspaces: Editor bookmarks are not saved for all tabs.

You can find the most up-to-date list of resolved issues for this release in the *Toad for Oracle Release Notes* found at: https://support.quest.com/toad-for-oracle/technical-documents.

Known issues

The following is a list of issues, including those attributed to third-party products, known to exist in this release line at the time of the current release.

General known issues

Known Issue	Issue ID
Toad's help cannot be opened from an installation path that contains Unicode characters.	72966
If you check "Indexes" on the Scripts tab for snapshots, then the primary key for the snapshot will be included in the script, even though the CREATE MATERIALIZED VIEW statement implicitly creates this primary key. Toad currently does not differentiate between indexes created explicitly on the snapshot and indexes created automatically when the snapshot is created. *Workaround:* If you are running the generated script to recreate the snapshot, then you can simply ignore the error that occurs when the script tries to recreate the primary key index for the snapshot. If you do not normally create indexes on snapshots, then you can uncheck "Indexes" when generating the snapshot script.	N/A
If you use 11g Oracle ODP.NET client or any other client that does not have the oci.dll in the BIN directory, Toad has the following problems: 1. Client shows as invalid 2. Client version is not detected 3. As a result of #2, columns of the following datatypes are not shown in the Schema Browser table data: CLOB, BLOB, NCLOB, XMLTYPE, TIMESTAMP, INTERVAL, BINARY_DOUBLE, and BINARY_FLOAT	N/A
Debugger If there is an exception during debugging on a 10Gr2 or greater database, REFCURSOR output and DBMS output will not be available when debugging is completed. This is due to the target session not being available. *Workaround*: To see REFCURSOR output and DBMS output, execute the procedure without the debugger.	N/A
Connections While Toad supports LDAP connectivity, some features of Toad depend on tnsnames.ora file to operate correctly, such as Toad Script Runner (TSR).	N/A

Known Issue	Issue ID
Schema Browser Sometimes after pressing "Compile invalid objects", you may get ORA-20000, ORA-06512, or ORA-06512 errors. This could mean that you do not have the privileges to compile the object, but it also happens when the schema contains a package body that does not have an associated spec. *Workaround:* Look in the schema that you are trying to compile to see whether there are any orphan package bodies. If it is your own schema, then do:select * from user_objects o1 where object_type = "PACKAGE BODY" and not exists (select "x" from user_objects o2 where o2.object_name = o1.object_name and o2.object_type = "PACKAGE") Then drop any orphan package bodies that are found.	N/A
Virtualization An access violation error may display when you close Toad in a Citrix XenApp environment.	76354
Import/Export Constraint scripts from Export DDL do not contain the "using index" or "tablespace" clause.	59228

Oracle client known issues

Known Issue	Issue ID
In some cases, connecting to an 11g database using a 19c or 21c client may result in a hang when cancelling a query or when using Code Insight. *Workaround:* Use an 18c or older client when connecting to an affected database.	N/A
All versions of Oracle client 19c leak memory when working with LOB types. This includes simple SELECT statements against a table containing LOB types.	N/A

Proxy server known issues

Known Issue	Issue ID
Toad does not support Proxy Automatic Configuration (PAC) scripts; however, Toad does allow you to specify Quest-specific proxy settings to work around this limitation. By default Toad will use non-PAC proxy settings configured within Windows automatically.	72966

Apply settings system-wide:

HKEY_LOCAL_MACHINE\Software\Quest Software\Internet Settings:

- ProxyEnable (DWORD): 1 = enable proxy override at this level, 0 = don't enable proxy override at this level

- ProxyServer (string): semicolon-delimited "<protocol>=<server>:<port>" entries
    - For a shared proxy server across multiple protocols:
        - a single "<server>:<port>" entry is all that's needed (ex: "127.0.0.1:8888")
    - For individual proxy servers by protocol, specify multiple entries:
        - ex: "https=127.0.0.1:8888;http=127.0.0.1:8080;ftp=127.0.0.1:6300"

For 32-bit applications on a 64-bit machine:

- Key: HKEY_LOCAL_MACHINE\Software\WOW6432Node\Quest Software\Internet Settings:

Apply settings to your own account:

HKEY_CURRENT_USER\Software\Quest Software\Internet Settings:

- Same keys as above

Notes for use:

1. Override proxy settings will only be included if the corresponding ProxyEnable value is set to "1". Otherwise, it's ignored.
2. HKLM (system-wide) server settings will override Windows settings.
3. HKCU (local) server settings will override HKLM and Windows settings.
4. Users can also edit both the system proxy settings (existing in Toad 14.0) and now their user-specific proxy settings (from HKCU) within Toad's Proxy Settings dialog (View | Options | Online); however, system-wide settings (from HKLM) will not be editable inside of Toad since they're more for administrators in silent installs or system-wide configs.

Data Grids known issues

Known Issue	Issue ID
You may receive an "ORA-00902 invalid datatype" error when editing an object, nested table, or varray data if you have redefined the data type for that data during the current session. *Workaround:* If you redefine an object type, nested table, or varray and then need to edit data in a table based on that type, end your current connection and begin a new one.	N/A
Full table data is not displaying in the live data grid (results from F9) if the data contains "zero" characers (ACII 0). In this case, all data after the zero character will not show in the grid. *Workaround*: Double click on the data cell in the data grid to view full contents of data in a popup editor.	

Code Analysis known issues

Known Issue	Issue ID
Saving results to a database: When dealing with nested procedures, Code Analysis can only insert run data from procs one level deep.	N/A
Saving PL/SQL results to a database may fail or save invalid data to the database for invalid PL/SQL objects. *Workaround:* To ensure PL/SQL results are saved to the database correctly, verify the validity of all objects before running Code Analysis.	N/A

Editor known issues

Known Issue	Issue ID
Toad errors when you query on a field of Oracle collection types. *Workaround:* Execute using SQL*Plus.	64373
When spooling to an unpinned output window, the window becomes unresponsive and errors are given when Toad is closed ("Canvas does not allow drawing"). *Workaround:* Keep the output window pinned.	68523
If you use a non fixed-width font, the results are misaligned in the of Script Output tab in Editor after executing a SQL script. *Workaround:* Go to Options	Scripts and select a fixed-width font for script output.	62234

Session Browser known issues

Known Issue	Issue ID
The Program name in the Session Browser may be blank or may be the full path to the executable instead of just the executable name. This depends on the Oracle client, not on Toad.	N/A
In RAC databases, version 10.1.0.3 (and possibly other 10.1 versions), the query used to populate the "Current Statement" in the Session Browser fails with the following error: Runtime error occurred: 12801 (ORA-12801: error signaled in parallel query server PZ99, instance <instance name> ORA-01008: not all variables bound) This problem does not occur in Non-RAC environments. *Workaround:* Clear the "Use RAC Views" checkbox, and log into the appropriate instance of the database, if necessary.	N/A

Team Coding known issues

Known Issue	Issue ID
Creating a new revision or attempting to force a check-in to Visual Studio Team Services may result in a "404: Not Found" error. The current version of Team Foundation Server used by Visual Studio Team Services compares the source being uploaded with the source already in the repository. If the source has not changed, it may incorrectly return an error rather than allowing the forced revision. This appears to be a Microsoft issue. As a result, these two commands may fail.	N/A
When using the Team Foundation Server internal client and Team Foundation Server 2012 or 2013 alternate Team Project Collections, workspaces created outside of Toad are not visible from within Toad. A workspace may be created from Toad by clicking the 'New' button during the Team Foundation Server log in. This is not an issue when using the Team Foundation Server external client.	**114334**
Team Coding is disabled for mixed-case object names.	N/A
With CVS, Toad may fail to retrieve the list of projects for you to select from in the CVS browser or in the Code Control Groups configuration. *Workaround:* See "Missing CVS\Entries File Error" in the online help.	N/A
Team Coding and Clearcase: Dynamic Views are not supported via SCC interface. Snapshot Views must be used instead. (Rational case ID v0830629, Rational Defect # CMBU00053934)	N/A

Unicode known issues

Known Issue	Issue ID
The following features in Toad do not support Unicode: • ASM Manager • Export File Browser • Hex Editor In addition, Java itself does not allow Unicode class names or file names. This is relevant to the Java Manager, Editor, and Schema Browser.	N/A
Editor options to highlight object names may not work for object names that contain Unicode characters.	N/A
Script Execution in Editor: Error offset can be incorrect when running scripts with multi-byte object names.	N/A
XML (Plain) format creates bad XML if Unicode string values and Unicode column names are exported through Export Dataset.	N/A
Import mapping for Unicode characters is incorrect if the characters are not a fixed width (such as Korean).	63221

Known Issue	Issue ID
In Team Coding, objects with Unicode *contents* are supported, objects with Unicode *names* are not. Supported Version Control Providers do not support Unicode names.	N/A
The OCI option ORA_NCHAR_LITERAL_REPLACE affects the NCHAR String Literal Replacement behavior when connected to non-Unicode databases. The option can be enabled or disabled. See the "Enable ORA_NCHAR_LITERAL_REPLACE" option (View | Options | Oracle | General). The option has adverse behavior regardless of its value. • **Enabled** - ORA-01756 error when executing SQL using the Q-quote operator where the end delimiter appears within the string literal and is followed by a single quote that is also part of the string literal. The single quote does not have to immediately follow the delimiter. • **Disabled** - NCHAR string literal corruption when connected to non-Unicode database.	N/A

High DPI known issues

Known Issue	Issue ID
Toolbars (Affects Windows Server 2019 only) Toolbar button images may disappear when you mouse over them if the "High DPI scaling override" option is set to "System (Enhanced)" in the Windows file properties dialog for Toad.exe	N/A

Toad for Oracle on Mac known issues

Known Issue	Issue ID
The "Allow multiple copies of Toad to be loaded" option is nonfunctional. The option allows multiple copies of Toad to be opened on Windows, but does not work on macOS. The option has been disabled. *Workaround*: Review macOS documentation for instructions on how to open a new instance of an app on Mac.	N/A
The "File | Fast Exit" feature is nonfunctional. The feature allows for quickly closing Toad without prompting to save work. It has been disabled.	N/A
The Quit menu item from Apple's Toad for Oracle menu is nonfunctional if an Editor is open.	N/A
Editor is slow to open if CAPS lock is enabled. *Workaround*: Turn off CAPS lock before opening Editor.	N/A
Bold text and other UI painting issues after installing Team Coding database objects. *Workaround*: Restart Toad.	N/A
TNSPING is unavailable in the Login window. It is available in Toad for Oracle on Windows.	N/A

Third-party known issues

Known Issue	Issue ID
Help (Affects the 64-bit version of Toad only) If IE9 is installed, clicking a link in the Help file may crash Toad 64-bit, even if IE9 is not the default browser. *Workaround*: Users who have IE9 installed can open Help from outside of Toad.	N/A

System requirements

This section contains the hardware, software, and privileges required to run Toad for Oracle, as well as the database and virtual environments that Toad for Oracle supports.

Hardware requirements

Requirement	Details
Processor	• 1 GHz processor - Toad for Oracle 32/64 bit • Apple Silicon (M-series processors) - Toad for Oracle on Mac
Memory	• 1 GB RAM - Toad for Oracle 32 bit • 2 GB RAM - Toad for Oracle 64 bit • 2 GB RAM - Toad for Oracle on Mac **NOTE:** The memory required may vary based on the following: • Applications that are running on your system • Size and complexity of the database • Amount of database activity • Number of concurrent users accessing the database
Hard disk space	• 600 MB - Toad for Oracle 32/64 bit • 2 GB - Toad for Oracle on Mac
Operating system	• Windows 10 • Windows 11 • Windows Server 2016 • Windows Server 2019 • Windows Server 2022 • macOS 11 • macOS 12 • macOS 13 • macOS 14

Database requirements

Requirement	Details
Database client	An Oracle client is optional. Connecting to a database without an Oracle client has the following considerations: • Features requiring Oracle utilities will be unavailable including, but not limited to: SQL*Plus, Data Pumps, Import/Export Utilities, SQL Loader, TKProf, TNSPing, Wrap. • Oracle Net Services configuration files are required for some connection methods, e.g. TNS requires tnsnames.ora and LDAP requires both ldap.ora and sqlnet.ora. These files may be placed in the folder specified by your TNS_ADMIN environment variable or in the same folder as Toad.exe. The following Oracle clients are supported: • Oracle Client or Instant Client 10.2.0.5 • Oracle Client or Instant Client 11.2.0.1/11.2.0.3 • Oracle Client or Instant Client 12c Release 1 and 2 • Oracle Client or Instant Client 18c • Oracle Client or Instant Client 19c • Oracle Client or Instant Client 21c **NOTE:** You must use the 32-bit version of Toad with the 32-bit Oracle client, and the 64-bit version of Toad with the 64-bit Oracle client.
Database server	**Oracle versions:** • 10g Release 2 • 11g Release 1 and 2 • 12c Release 1 and 2 • 18c • 19c • 21c • 23c (Oracle Cloud Infrastructure (OCI) and Developer Free) **IMPORTANT:** It is recommended that your client version be of the same release (or later) as your database server. This is an Oracle recommendation to prevent performance issues.
Cloud database service	Oracle Database as a Service on Amazon EC2 and Oracle Cloud

Network

- Internet Protocol Version 6 (IPv6) is being adopted by the US Federal Government and industries around the world. In its most basic format, the new protocol uses 128-bit addresses instead of 32-bit addresses, which are used by the current IPv4 to route packets over the Internet. Toad for Oracle features, such as FTP, access the Internet through third-party vendors that are IPv6 compliant, such as /nSoftware's IP*Works. For access to Web sites by way of the Toad Online window, Toad simply invokes the user-defined or default Web browser.

- Toad for Oracle Subscription editions require the user to sign in when using the product. This enables the product to verify the user's identity and to check that they are entitled to use the subscription. To complete this entitlement check internet access is required to connect to Quest Software's Licensing Servers.

- Toad for Oracle Subscription edition is bundled with Quest Auto Update, a service to periodically check for and deliver product updates. Quest Auto Update requires internet access and must be able to reach the cloud service at https://autoupdate.toadworld.com.

Additional requirements

Requirement	Details
Additional Software	• Microsoft Internet Explorer 6.0 or later (to view video from the **Jump** list within Toad, and to view the product documentation in HTML format).
	• Microsoft Office 2016 and recent earlier releases are supported for Word and Excel output.
	• Adobe Acrobat Reader 7.0 or later (to view the product documentation in PDF format).
	• Microsoft .NET Framework 4.0 to support the Toad for Oracle Editions Installer.

Virtualization support

Type	Details
Application virtualization	Citrix® XenApp
Desktop virtualization (VDI)	vWorkspace™ 7.0 has been tested.
Server virtualization	Oracle VM 3.1 has been tested. VMware ESX Server 3.5, 4.0, and 5.5 have been tested.

NOTE: Toad may work in virtualization environments other than the ones listed.

Windows Privileges

In order to install and run Toad, make a connection, and do basic operations, you must have the following privileges.

Operating System	Requirements
Windows non-Server Windows Server	• Read access to the Oracle client folder • Read/write privileges on the Oracle Home directories that you use for your connections

NOTE: Toad for Oracle Subscription edition is bundled with Quest Auto Update, a service to periodically check for and deliver product updates. Installation requires administrator privileges on all supported operating systems.

NOTE: Other functionality in Toad may require additional privileges.

Product licensing

Legacy Toad for Oracle with offline license keys

To activate a trial

1. Go to the trial download web page: https://www.quest.com/products/toad-for-oracle/software-downloads.aspx, accessed through the product page.

2. Select the Toad for Oracle Edition that you want to try.

3. Log in to your account or register.

4. Accept the license terms.

5. Download the trial file.

To activate a purchased commercial license

1. Go to the Quest Support website: https://support.quest.com/

2. Type the name of the product that you want to activate in the **Enter your product to find support** field.

3. Select **Download New Releases**.

4. Download the installer file.

NOTES:

- License keys compatible with Toad for Oracle 9.7 and earlier versions are no longer supported.

- Only the newer 48-character license keys are supported.

- If you have an older license type, the Editions installer points you to the license web page where you can update it.

- Toad supports cumulative licensing. You can add multiple licenses, including those for add-ons like Sensitive Data Protection, to Toad. Toad will use the licenses providing the highest degree of features.

Toad for Oracle Subscription with online licensing (including Editions)

Toad for Oracle Subscription requires you to sign in with your Quest.com account. Licenses are tied to your account giving you the flexibility to use Toad from multiple computers without having to move your license.

Sign in with existing Quest.com account

1. Enter your account email address and password when prompted

2. If you already have a Toad for Oracle Subscription license, no further action is needed

3. If you do not have a Toad for Oracle Subscription license, see **Activating a new license** below

Create a new Quest.com account

1. Select **Sign up for a new account**

2. Enter your account details and select **Sign Up**

3. A confirmation email is sent containing a verification code

4. Enter the code from the email and select **Verify**

   NOTES:

   - It may take a few minutes for the verification email to arrive

   - Check your spam/junk folders for the email sent from supportadmin@quest.com if you do not receive it

   - For additional assistance, please contact Quest support

Activating a new license

1. Toad for Oracle Subscription automatically provides a fully functioning, 30-day Trial license

2. To purchase a new license, click **Buy Now** from Toad's title bar

3. After completing your transaction, restart Toad and your license is automatically detected

4. To manage licenses, select **Account Settings** beneath your account shown at the top-right of Toad

   NOTE: You can view your licenses from within Toad by selecting **Help | Licensing**

Getting started with Toad for Oracle

Toad for Oracle is distributed in the Toad for Oracle Editions at https://support.quest.com/download-product-select.

Upgrade and installation instructions

Please refer to the Toad for Oracle *Installation Guide* at https://support.quest.com/technical-documents for installation and upgrade instructions.

Upgrades for Toad for Oracle can install side-by-side with any previous versions you have installed. You can run the new and previous versions concurrently.

The first time you run the new version of Toad, the settings files from the previous version are automatically imported. To start with a clean set of user files, go to **Utilities | Copy User Settings**, then select **Create a clean set of user files from the base installation**.

> **NOTE:** Toad supports importing settings only if the new version is within two releases of the previous version. If your versions are more than two releases apart, you need to install an intermediate version to successfully import the files.

User instructions

To get started with using Toad for Oracle, see the *Guide to Using Toad* at https://support.quest.com/technical-documents. For detailed information about any Toad window or feature, see the online help, which can be accessed from the **Help** menu.

Additional resources

Additional information is available from the Toad for Oracle Community on Toad World:

https://www.toadworld.com/products/toad-for-oracle

Globalization

Global Operation Statement

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 was not enabled and tested for international operation. Only U.S. English configurations of this product and U.S. English datasets are fully supported. Support for non-ASCII characters or non-English configurations may work appropriately, but these configurations have not been tested and this release should be used with caution in these environments.

This release has the following known capabilities or limitations: Toad 13.1 is a Unicode application. As such, it has support for any Oracle Unicode character set, such as UTF8 or AL32UTF8. There are some features in Toad which use or invoke Oracle Utilities or applications which are not themselves Unicode applications. Their functionality is therefore limited to the character set of the client on which Toad is running, and NLS_LANG must be carefully set to match the Windows character set

We have also observed issues with US7ASCII when used with non Latin 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.

Contacting 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

Toad for Oracle Release Notes
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Version - 17.1