

Toad™ for Oracle® 12.11

Release Notes

Revised 5/26/2017

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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 resources

The parent site for all Toad family products is [ToadWorld.com](https://www.toadworld.com), where you will find videos, white papers, web-based, training, expert blogs and podcasts, as well as beta releases, trial downloads and much more. The [Toad for Oracle Community](#) on this site focuses this content specifically on Toad for Oracle.

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 against other customers' 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 for using the latest Toad features.

The Toad [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 receive a certificate of completion for each course once you pass the accompanying test!

About this release

Toad for Oracle 12.11 is a minor release, with enhanced features and functionality.

About Toad for Oracle 2017 Editions

All commercial versions of Toad are bundled with additional Quest products, based upon the license that you purchased. These bundles are known as Editions and include the following:

Toad for Oracle Base Edition

- Toad™ for Oracle®
- Toad™ Data Modeler (free use)

Toad for Oracle Professional Edition

- Toad for Oracle® Professional
- Toad™ Data Modeler (free use)

Toad for Oracle Xpert Edition

- Toad for Oracle® Xpert
Includes all features in Base and Professional Editions
- SQL Optimizer for Oracle®

Toad for Oracle Developer Edition

- Toad for Oracle® Xpert
- Code Tester for Oracle®
- Benchmark Factory™ for Databases - Oracle® Edition

Toad for Oracle DBA Edition

- Toad for Oracle® Xpert
- DB Admin Module Add-on
- Spotlight™ on Oracle®
Includes Spotlight on Unix/Linux, Spotlight on Windows, and Spotlight on Oracle Data Guard
- Benchmark Factory™ for Databases - Oracle® Edition
- Toad Data Modeler

Toad for Oracle DBA RAC Edition

- Toad for Oracle® Xpert
- DB Admin Module Add-on
- Spotlight™ on Oracle® with RAC Option
Includes Spotlight on Unix/Linux, Spotlight on Windows, and Spotlight on Oracle Data Guard
- Benchmark Factory for Databases - Oracle® Edition
- Toad Data Modeler

Toad for Oracle DBA Exadata Edition

- Toad for Oracle® Xpert
- DB Admin Module Add-on
- Spotlight™ on Oracle® with RAC and Exadata Options
Includes Spotlight on Unix/Linux, Spotlight on Windows, and Spotlight on Oracle® Data Guard
- Benchmark Factory for Databases - Oracle® Edition
- Toad Data Modeler

For more information about the products in your Toad Edition and the minimum system requirements for running these products, see the Toad for Oracle 2017 Editions release notes at:

<https://support.quest.com/technical-documents>

New features

The following new features were introduced in this release of Toad for Oracle.

Cloud support

Toad now enables simple movement to and from cloud-based Oracle installations. Pluggable databases can now be cloned from one server to another through a database link instead of having to manually copy files.

Toad Intelligence Central Integration

The execution of artifacts from Toad in Toad Intelligence Central has been removed.

Team Coding

- The ability to view annotations for VCS files has been added to the Object Properties window in Team Coding. Annotations allow you to view the line-by-line contents of a file, as well as the revision and the author who made the change. Hovering over the revision number in this tab shows details for the revision in a hint.
- Team Coding now enables you to add unit tests to the VCS. This applies to unit tests created within Toad from the PL/SQL Results window. To enable this feature, add the schema of the user that created the unit tests to a team project, then select the **Unit Test** object type under that schema. **NOTE:** Unit tests are tied to the *user* who created the test, *not* to the database object on which the test is run. Therefore, this control applies to any unit test created against any database object, *whether the database object is controlled or not*.



Session Menu

- **Session | New Connection** now displays all possible connection types in the **Connect As** drop-down list, including SYSBACKUP, SYSDG, and SYSKM for Oracle 12c.
- A new **Session | Transactions** feature enables you to determine whether open sessions are performing a transaction. You can leave this window open while you work to keep track of their state. Toolbar options enable you to roll back the transaction or commit it. The view can be refreshed manually or by means of an auto-refresh schedule that you can set.

Schema Browser

- The Schema Browser right-hand side Deps tabs now has an option to send all or selected objects to the Export DDL window.
- Toad now supports the granting of the Common role in the **Create/Alter User** command, as well as in the **Users | Role Grants**, and **Users | Script** tabs.
- When a User is selected in the Schema Browser, the RHS now shows the Container Data Restrictions tab, which shows the PDBs to which that user has access.
- A new **Container Database Resource Plans** object was added to the Schema Browser object list.
- Toad now supports Oracle 12cR2 index usage tracking. A Usage tab on the RHS of the Schema Browser when an index is selected shows the number of usages per number of rows retrieved, taken from DBA_INDEX_USAGE and V\$INDEX_USAGE_INFO. Note that this data is SAMPLED, so it does not capture 100% of the usages. To see the tracking information, you must connect to an Oracle database that is 12cR2 or newer and be able to select from DBA_INDEX_USAGE.
- A new option of **Enable On Query Computation** was added to **Database | Create | Materialized View** to support real time materialized views, new in Oracle 12cR2.
- Toad now allows users to name and save the query on the Data tab of the Schema Browser for tables, views, and materialized views .

Database

- The new Compare Schemas Wizard provides an easier to use interface for doing a one-to-one comparison between schemas. One of the unique features of the Wizard is to allow for the adding or checking in of the generated script to source control. To use the wizard, go to **Database | Compare | Compare Schemas**, or click  in the Automation Designer.
- The new Compare Multiple Tables feature allows you to compare and synchronize multiple tables between two schemas. To use this feature, select **Database | Compare | Compare Multiple Tables** or click  in the Automation Designer.
- **Database | Compare | Schemas** now supports the use of DBMS_REDEFINITION to sync tables that are missing a column that is in the middle of the table.
- **Database | Create | User** now has a Container Data Restrictions tab that provides the ability to specify the PDBs (or all PDBs) to which the grants apply. This eliminates the need to manually add the **CONTAINER =** clause when adding a user to a container database.
- **Create/alter DB Link** now has a **Use TNS info from TNSNames.ora** checkbox. When this option is selected, the DB Link DDL will include "(Description=(Address=(.....)" (instead of the name of TNS Names entry) for the **USING** clause. The benefit of doing it this way is that it does not require a TNSNames entry to exist on the server of the database where the DB Link resides.

- A new **Include Pluggable Databases** option was added to the Administer Tablespace feature (**Database | Administer | Tablespaces**). This option shows only when Toad is connected to a container database. When this option is selected, the Space, Files, and Objects tabs will show data from the container database and all running pluggable databases. Space History and IO History do not work in this mode. F4 works only on the current database (the container in this case). The Reclaim and Alter functions work against any tablespace/datafile.
- In **Database | Report | Reports Manager**, it is now possible to put multiple unrelated queries (from different views) into a single Report Manager report. A new button was added for this purpose on the Master Dataset tab.


Editor

- An **Errors** tab has been added to the Script Output window of the Editor. This will provide quick access to error information when executing code as a script.
- The Editor debugger now allows selecting from a table as an input argument value. Type the SELECT statement in the Input column of the grid in on the Arguments tab of the Set Parameters dialog, and then set Input Type to **Expression**. The SELECT is shown in the Anonymous Block code window with the required INTO statement. To avoid Oracle errors when the block is executed, make sure that the SELECT limits rows properly. The query must return a single value (one column, one row).
- You can now save Code Analysis results as JSON files. After you run Code Analysis on an object, click the **Save** button in the tool bar and then select JSON as the file format.
- The **Create Unit Test** command (on the PL/SQL Results tab) now enables you to attach new test cases to an existing test definition. To do this, select **Attach To Existing** in the Create Test Case dialog.

Automation Designer

- The Automation Designer now has a Query Iterator, which enables you to enter a query, and for each row in the result set, one or more child actions does something with the query result. For example, the query could select a list of tables, and then Toad could run some action with each of those values. The Query Iterator is the only iterator in Toad that produces multiple variables (one for each column of your SELECT statement).
- Support has been added for variables in the Object Owner, Name, and Type fields for the **Export Dataset (Export Objects)** and **Export DDL (Objects and Output)** actions.
- The Automation Designer now has a new **Compare Files** action. You can compare a pair of files or all files in a pair of folders.
- The **Delete Directory** action now contains options for handling folders that contain files or subfolders.
- The **Create Directory** action now has a **Browse** button.
- The **Create File** action now has a **Save** dialog. Changes to the file name and/or encoding updates the controls on the action properties dialog, and values on the action properties dialog are the initial values shown in the file selection dialog.

Utilities

- The following changes were made to the **Utilities | Compare Files** utility:
 - A **Format source before comparing** option was added to Compare Files. Selecting this option automatically formats both files before performing the comparison. Both files will also have their `"/>`
- By default, the Compare Files window will now find the next/previous differences by block, rather than by line. You can change this option by clicking  (**Options**) in the Compare Files toolbar, then selecting **Finds next difference line**.
- The TNS Names editor has been redesigned for better overall usability. This new editor functions similarly to Toad's regular Editor, with a main editor and a tabbed navigation panel on the left hand side. You can still create, edit, clone, and delete entries visually, but the new editor provides a cleaner way of working with TNS files directly. Additional features include:
 - Ability to open more than two files
 - Ability to compare the contents of two tabs in the editor, or between a file on a tab and an external file.
 - Support for multiple TNS entry formats
 - Ability to view the left-hand side by host or by service
 - Ability to view cases where multiple items exist for a node. When viewing in host mode, this can be useful in detecting duplicate TNS entries with different names.

Other new features

- A Toad World Toolbar was added next to the Jump Search in the main toolbar. This toolbar enables you to browse the forums, ask a question, start a discussion, sign in to (or create) a Toad World account, and manage your password, all with the click of a button.
- Export Dataset with the **Delimited Text** format selected now includes a quick way to create an IN list for your SQL from field values in a grid. Select the **Export as "in" list for SQL** check box and then select a column to get a preformatted IN statement of the data in the specified file. This feature is only available when right-clicking from a grid and multiple rows are selected from only one column. **NOTE:** This setting is NOT remembered from one action to the next because it is tied to the grid and requires only one column to be selected.

Enhancements

Enhancements from Toad Idea Pond

The following is a list of enhancements requested by Toad users on the Toad Idea Pond and implemented in this release.

The [Idea Pond on Toad World](#) is a site where you can submit your ideas to improve Toad and vote or comment on ideas submitted by other people. The Toad development team has always been driven by our customers, and the Idea Pond makes it easy for you to tell us what changes are most important. This site is free for all Toad customers.

Enhancement	Link to Idea Pond
Add additional navigator options	Link
Add Configuration Option for behaviour of undoCheckout	Link
Copy Visible Grid Column Names to Clipboard	Link
Sort capabilities on the Action Recall window in Automation Designer	Link
Add dates from v\$log to online redo query in LogMiner	Link
Display Saved Filter Name for Data Grids	Link
Stop script execution in Script Manager on error.	Link
Multiple Scripts in Reports Manager	Link
Comment with timestamp in Editor	Link

Other enhancements

- Enhance the validation steps in Team Coding when a user checks out items from the VCS. Now, lock errors happen before the comment dialog box is shown. The comment dialog box now displays and groups the checked-out items by status ("Errors" vs "Valid"). Toad only allows the checkout to continue if the user selects valid items.
- Display the explain plan in the Editor (From Toad World Beta Forum).
- Change checkout behavior. Toad no longer prompts to check out the subfolder structure for an object, followed by an error checking out the folder, when the subfolder does not exist locally. Now Toad creates the folder structure and checks out the object with no errors.

- Improve Team Coding messaging. When **Log VCS commands** in the output window is selected, the following is the new behavior:
 - VCS commands are no longer sent to just one window regardless of how many connections there are. Each connection has its own VCS output.
 - VCS messages and Team Coding notifications are now in separate output windows.
 - You can now prevent the output window from opening.
- The default value of the **Treat blank line as statement terminator** Execute/Compile option is now disabled by default.
- Error and log message text of actions nested within other actions (like Control actions) in the Automation Designer are now shown when the container action is executed.
- When adding items to the Code Tester action in the Automation Designer, the group nodes are now shown by schema and then by object with test definitions beneath the object. Test definitions are now grouped by the tested program .

Resolved issues

This section contains a list of the issues that were resolved in this release of Toad for Oracle.

Resolved Issue	Issue ID
Breaking a lock in Team Coding doesn't update the VCS	TOR-1415
Issue found in Schema Browser refresh for TC objects	TOR-1411
Reporting GMT time in its history, rather than local time	TOR-1346
Temporal Validity not supported in table scripts	TOR-1345
Export File Browser hanging	TOR-1333
Can't debug on Pluggable RAC	TOR-1330
List Index Out of Bounds error when comparing large files	TOR-1310
Session Browser Disconnect Sessions and Kill Session buttons not active when setting DBA Role	TOR-1277
AV when formatting files with Execute Queries in Threads option turned on	TOR-1265
12c: Users > Object grants tab uses bad query for low priv users	TOR-1259
Explain plan window does not display content properly in Session Browser	TOR-1256
Scheduler Jobs notifications not created when Schema is different than login schema	TOR-1255
Minimum size for tablespesce file definition is computed incorrectly	TOR-1236
Anonymous Block with Bind Variable Executing Twice	TOR-1225
Cursor jumps when dragging from OP to Editor	TOR-1224
Scheduler Jobs > Scheduled Run Times tab not showing correct run times	TOR-1222
ora-00936 Missing Expression when clicking on the Locks System tab of Session Browser	TOR-1219
Add scrollbars to data compare	TOR-1218
When importing from *.xls version 5.0/95, Dates import as numbers	TOR-1210
Toad: FTP tool in Toad shows incorrect modified timestamp when connected via Secure FTP	TOR-1180
Named SQL Drop down list is hard to read	TOR-1031
Double-clicking in TC Manager opens VCS version of file vs local copy	TOR-1022
Disable "show diff details" for sys-named constraints where DDL cannot be fetched	TOR-1003
Alt+Left Arrow does not always take you back to package body	TOR-988

Resolved Issue	Issue ID
Non-SYS User logs in as SYSDBA, sees SYS's objects in dropdown	TOR-940
Toad doesn't release memory when 'execute as script' is cancelled	TOR-901
Editor: Alignment brackets (block staples) feature removed in 12.7 27 of 27 Return to search	TOR-881

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
<p>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.</p> <p>Toad currently does not differentiate between indexes created explicitly on the snapshot and indexes created automatically when the snapshot is created.</p> <p><i>Workaround:</i> 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.</p>	N/A
<p>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:</p> <ol style="list-style-type: none">1. Client shows as invalid2. Client version is not detected3. 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
<p>Debugger</p> <p>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.</p> <p><i>Workaround:</i> To see REFCURSOR output and DBMS output, execute the procedure without the debugger.</p>	N/A
<p>Connections</p> <p>While Toad supports LDAP connectivity, some features of Toad depend on tnsnames.ora file to operate correctly, such as Toad Script Runner (TSR).</p>	N/A

Known Issue	Issue ID
<p>Schema Browser</p> <p>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.</p> <p><i>Workaround:</i> 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.</p>	N/A
<p>Virtualization</p> <p>An access violation error may display when you close Toad in a Citrix XenApp environment.</p>	76354
<p>Import/Export</p> <p>Constraint scripts from Export DDL do not contain the "using index" or "tablespace" clause.</p>	59228
<p>Data Modeler:</p> <ul style="list-style-type: none"> • Generation of HTML reports of large diagrams may fail during generation of an image of the ER Diagram. • Comparison of large models may consume too much memory. 	N/A

Data Grids known issues

Known Issue	Issue ID
<p>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.</p> <p><i>Workaround:</i> 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.</p>	N/A
<p>Full table data is not displaying in the live data grid (results from F9) if the data contains "zero" characters (ASCII 0). In this case, all data after the zero character will not show in the grid.</p> <p><i>Workaround:</i> Double click on the data cell in the data grid to view full contents of data in a popup editor.</p>	

Code Analysis known issues

Known Issue	Issue ID
<p>Saving results to a database: When dealing with nested procedures, Code Analysis can only insert run data from procs one level deep.</p>	N/A

Known Issue	Issue ID
<p>Saving PL/SQL results to a database may fail or save invalid data to the database for invalid PL/SQL objects.</p> <p><i>Workaround:</i> To ensure PL/SQL results are saved to the database correctly, verify the validity of all objects before running Code Analysis.</p>	N/A

Editor known issues

Known Issue	Issue ID
<p>Toad errors when you query on a field of Oracle collection types.</p> <p><i>Workaround:</i> Execute using SQL*Plus.</p>	64373
<p>When spooling to an unpinned output window, the window becomes unresponsive and errors are given when Toad is closed ("Canvas does not allow drawing").</p> <p><i>Workaround:</i> Keep the output window pinned.</p>	68523
<p>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.</p> <p><i>Workaround:</i> Go to Options Scripts and select a fixed-width font for script output.</p>	62234

Session Browser known issues

Known Issue	Issue ID
<p>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.</p>	N/A
<p>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.</p> <p><i>Workaround:</i> Clear the "Use RAC Views" checkbox, and log into the appropriate instance of the database, if necessary.</p>	N/A

Team Coding known issues

Known Issue	Issue ID
<p>Creating a new revision or attempting to force a check-in to Visual Studio Team Services may</p>	N/A

Known Issue	Issue ID
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.	
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
Team Coding and SourceSafe: <ul style="list-style-type: none"> Integration via the SCC API is available but not recommended for SourceSafe 6.0 SourceSafe 5.0 ignores the "Force revision" flag and "Create a new revision for existing objects" option when exporting. 	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. <i>Workaround:</i> 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: <ul style="list-style-type: none"> 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	63221

Known Issue	Issue ID
as Korean).	
In Team Coding, objects with Unicode <i>contents</i> are supported, objects with Unicode <i>names</i> are not. Supported Version Control Providers do not support Unicode names.	N/A

Third-party known issues

Known Issue	Issue ID
<p data-bbox="199 613 252 636">Help</p> <p data-bbox="199 656 627 678">(Affects the 64-bit version of Toad only)</p> <p data-bbox="199 696 1182 750">If IE9 is installed, clicking a link in the Help file may crash Toad 64-bit, even if IE9 is not the default browser.</p> <p data-bbox="199 768 1066 790"><i>Workaround:</i> Users who have IE9 installed can open Help from outside of Toad.</p>	N/A
<p data-bbox="199 824 268 846">ODAC</p> <p data-bbox="199 864 1182 918">ODAC does not support Unicode in XMLTYPE (editing of XMLTYPE data is not supported). Querying of XMLTYPE with binary storage will lead to an error.</p>	62654

System requirements

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

Hardware requirements

Requirement	Details
Memory	<ul style="list-style-type: none">• 1 GB RAM - Toad for Oracle 32 bit• 2 GB RAM - Toad for Oracle 64 bit <p>NOTE: The memory required may vary based on the following:</p> <ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 120 MB - Toad for Oracle 32 bit• 150 MB - Toad for Oracle 64 bit
Operating system	<ul style="list-style-type: none">• Windows Vista (32-bit and 64-bit)• Windows Server 2008 (32-bit and 64-bit) - 2 CPU required• Windows Server 2008 R2 (64-bit) - 2 CPU required• Windows 7 (32-bit and 64-bit)• Windows 8 and 8.1 (32-bit and 64-bit)• Windows Server 2012 (32-bit and 64-bit) - 2 CPU required• Windows Server 2012 R1 and R2 (64-bit) - 2 CPU required• Windows 10

Database requirements

Requirement	Details
Database client	<p>An Oracle client must be installed and configured on the system where you are running Toad. The following are supported:</p> <ul style="list-style-type: none">• 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 <p>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.</p>
Database server	<p>Oracle versions:</p> <ul style="list-style-type: none">• 10g, 10g R2• 11g, 11g R2• 12c Release 1 and 2 <p>Exadata:</p> <p>Toad has been tested on Oracle Exadata 2.0 running Oracle database 11g R2.</p> <p>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.</p>
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.

Additional requirements

Requirement	Details
Additional Software	<ul style="list-style-type: none">• 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).• 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 5.0 and 6.5 have been tested.
Desktop virtualization (VDI)	Dell™ 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 for Oracle, make a connection, and do basic operations, you must have the following privileges.

Operating System	Requirements
Windows Vista	<ul style="list-style-type: none">• Read access to the Oracle client folder
Windows 7	<ul style="list-style-type: none">• Read/write privileges on the Oracle Home directories that you use for your connections
Windows 8 and later	<ul style="list-style-type: none">• Read access to the Oracle client folder
Windows Server 2012	<ul style="list-style-type: none">• Read/write privileges on the Oracle Home directories that you use for your connections

NOTE: Other functionality in Toad may require additional privileges.

Product licensing

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 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.
- Beginning with Toad for Oracle 12.5, 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.

Getting started with Toad

Toad for Oracle is distributed in the Toad for Oracle 2017 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 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:
<http://www.toadworld.com/products/toad-for-oracle/default.aspx>

Globalization

Global Operation Statement for Toad for Oracle 12.11

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. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. 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.

The release is localized to the following languages: Chinese (Simplified), Korean.

This release has the following known capabilities or limitations: Toad 12.11 is a Unicode application. As such, it has native 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.

The UI is localized into simplified Chinese. Reports are localized to simplified Chinese and Korean.

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/company/contact-us.aspx or call +1 949 754-8000.

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](#)
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Legend

-  **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.
-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
-  **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

Toad for Oracle Release Notes

Updated - 5/26/2017

Version - 12.11