

Toad Edge® 2.4.2

Release Notes

April 2022

These release notes provide information about the Toad Edge release.

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About Toad Edge®

Toad Edge® is a database management application that allows you to perform database administration tasks with ease.

Toad Edge® allows you to:

- Connect to your databases, view, explore and edit database structure, database objects and properties
- Manage database objects, easily add, edit or drop objects in **Object Explorer**
- Obtain detailed information about your databases
- Manage data stored in your database, add, edit or remove records
- Write complex SQL code comfortably in **Worksheet**
- Compare and synchronize databases using powerful **Schema Compare**
- Conveniently manage users and user permissions in **Object Details** editors
- Seamlessly integrate Toad Edge into your **Continuous Integration and Delivery** processes

Toad Edge 2.4.2 is a minor release, with new features and functionality. See [New features](#) for more information.

New features of Toad Edge

In Toad Edge® 2.4 the following new features were implemented:

General features

Worksheet enhancements

- Added restriction on opening of redundant files
- Added file system synchronization for SQL/JSON editor

Support for backup and restore functions

- Added backup and restore functionality for PostgreSQL, EDB, MariaDB and MySQL.

Support for Locks in PostgreSQL and EDB

- Introduced Lock Manager for PostgreSQL and EDB.

Export improvements

- Added option to export data as XML from object explorer.
- Added option to replace NULL value with user customizable text while exporting/importing table in CSV mode.

Performance improvements

- Fixed memory leak issues during SQL query execution
- Introduced JDBC parameters like ResultSet fetch limit and max rows fetch limit's tuning for the user to control RAM surge when running expensive queries.
- Optimized compare file's deserialization and serialization

OS support

- Officially supporting macOS 12 Monterey (64-bit) and Windows 11 (64-bit)
- Officially supporting macOS 10.15 Catalina (64-bit) and macOS 11 Big Sur (64-bit).

Database features

Enhancements for MySQL8 and MariaDB

- Supporting CHECK CONSTRAINT for MySQL 8.0.16 onwards and MariaDB 10.2 onwards

Support for MariaDB 10.6

- Toad Edge now supports connecting with MariaDB 10.6

Enhancements

The following is a list of enhancements implemented in Toad Edge 2.4

- Improved error messages when license addition fails
- Restriction on opening of redundant files
- Added file system synchronization for SQL/JSON Editor
- Support non-encrypted PKCS#8 private keys
- Support Windows 11
- Support MariaDB 10.6
- Routines are now visible in Object Explorer for EDB 14
- Routines are now visible in Object Explorer for PostgreSQL 14
- Upgrading Log4j to Log4j 2.17.1 due to CVE-2021-4104
- Officially supporting macOS Catalina
- Officially supporting macOS BigSur

Resolved issues

The following issues were resolved for this release:

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Description	Issue ID
Fixed query selection when selected queries are being executed	14922/5062715
Fixed first time connection issue in caching_sha2_password auth plugin connections	14909/5031804
Fixed restore process when communication protocol isn't specified in MacOS	14906
Added alternative offline config file path(license.cfg)	14899/5037069
Users can import datetime values from csv to table in EnterpriseDB	14896
Fixed deletion of row with JSON data	14893

Description	Issue ID
Now displaying correct platform name while creating tables in EDB	14882
Fixed silent filenotfound exception when clicking schema compare drop down menu	14879
Support of special number 'Infinity', '-Infinity', 'NaN' in Numeric for Postgres14	14871
Improved error message when invalid private key is used in ssh connection	14857/4971190
Fixed name generation when SQL editors are created concurrently	14850
Fixed NPE of CI/CD code preview option	14849
CLI is now picking correct schema during PostgreSQL operations	14837
Data import will throw an error if there is a data type mismatch	14828
Fixed NPE while force closing mac	14818/4955217
Data type is not ignored while exporting table to csv	14812/4941878

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Description	Issue ID
Upgrading Log4j to Log4j 2.17.1 due to CVE-2021-4104	14867
Officially supporting macOS Catalina	14806
Officially supporting macOS BigSur	14805
Fixed rendering issue in Status Box for BigSur	14659/4827941
Fixed UI rendering issue in global search.	14902/5031753

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Description	Issue ID
Fixed memory leak issues during SQL query execution	14802
Fixed faulty selection of suggestions when selecting from content assist popup during SELECT queries	14698
Fixed DROP functionality for TABLESPACE	14710
Fixed print functionality for Editors	14762
Wrong diff calculation while comparing SEQUENCE objects	14811

Known issues

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

General known issues

Known Issue	Issue ID
Syntax tree hasn't been updated for Pg14 and EDB14	14949
Mouse cursor may become invisible in specific circumstances related to errors in Worksheet . Workaround: Switch into a different Toad Edge View and back.	5942
After upgrading from Toad Edge 1.0 , databases that were mapped (as part of Repository) will lose their mapping.	8223
When a database is synchronized with Repository, changes made to tables in the database that have been created using BLACKHOLE, CSV or FEDERATED engine are not detected in Object Explorer. Workaround: Display the comparison window (right-click the database Repository Synchronize). The changes will be detected and subsequently displayed in Object Explorer.	8332
Toad Edge will not override default settings of associated programs for opening JSON files on Windows.	9229
Currently it is not possible to activate more than one license during silent installation on Windows	11666
While connecting to Postgres/EDB, one might get "Password must be at least 14 characters" as error Workaround: Close ToadEdge and go to ToadEdge.ini file and change - Dorg.bouncycastle.fips.approved_only value to false.	14740

System requirements

Before installing Toad Edge 2.4.2, ensure that your system meets the following minimum hardware and software requirements.

Hardware requirements

Requirement	Details
Processor	Minimum dual core 64-bit processor
Memory	Minimum 4 GB RAM
Hard disk space	Minimum 500 MB + additional disk space for user data

Software requirements

Requirement	Details
Operating System	Windows 11 (64-bit)

Requirement	Details
	Windows 10 (64-bit) Windows 8.1 (64-bit) Windows 7 (64-bit) Windows Server 2012 R2 (64-bit) macOS 12 Monterey (64-bit) macOS 11 Big Sur (64-bit) macOS 10.15 Catalina (64-bit) macOS 10.14 Mojave (64-bit) macOS 10.13 High Sierra (64-bit) macOS 10.12 Sierra (64-bit)
Other requirements	.NET 4.0 is required to install the application on Windows 7

i **NOTE:** Toad Edge may also run on virtual versions of the mentioned operating systems. Please note, however, that these configurations are not tested.

Database requirements

Supported database	Version	Additional details
PostgreSQL	9.5, 9.6, 10, 11, 12, 13	Toad Edge tested with Amazon Aurora PostgreSQL 9.5 and Microsoft Azure PostgreSQL 10.1
EnterpriseDB	9.6, 10, 11, 12, 13	
Amazon Redshift	1.0	In beta. You need to use RedshiftJDBC42-1.2.12.1017 or newer driver in order to use Redshift features.
MariaDB	10.1, 10.2, 10.3, 10.4, 10.5, 10.6	MariaDB 10.1 tested for common functionality with MySQL 5.6. Note: Only features common with MySQL are supported except Sequences.
MySQL	5.5, 5.6, 5.7, 8.0*	MySQL 5.6 tested to run in Microsoft Azure. MySQL 5.7 tested to run in Amazon Relational Database Service (RDS) environment MySQL engines: InnoDB, MyISAM Tested MySQL editions: Community, Standard, Enterprise *Role Management and Tablespaces are currently not supported for MySQL 8.0. Please use the latest driver with MySQL 8.0 support.

Other Requirements

Internet connection	In order to sign-in and validate your license internet connection is required to connect with our licensing servers.
Internet browser	In order to view documentation an internet browser is required. Internet Explorer 10 or later is recommended.
Screen	The minimum supported resolution is 1280 x 720. Toad Edge might launch on any resolution but some features might not be displayed correctly.

Product licensing

Three types of licenses are available for Toad Edge:

- **Freeware** - basic mode which is active when no other license is supplied
- **Trial** - unlimited mode which lasts for a set period (for example, the initial 30-day Trial)
- **Commercial** - unlimited mode gained by purchasing and using a Commercial license in the application

As mentioned in [Introduction](#), you need to create and sign in to your Quest Software account in order to start using Toad Edge. After you create your account, you are provided an initial 30-day Trial license. This allows you to try out the application and all of its features.

Once the Trial period elapses, you can purchase and supply a Commercial license to continue using Toad Edge without limitations. Otherwise, the application will revert to the Freeware mode. You will be still able to use all Freeware features, but you will not be able to access Commercial features.

The following matrix lists all features that can be used in Freeware and Trial/Commercial versions of Toad Edge.

Feature	Commercial	Freeware
SQL Worksheet/Editor		
Advanced Content Assist	✓	✗
Syntax check	✓	✓
Code formatting	✓	✓
Multiple statement execution	✓	✓
Execution from/to position	✓	✓
Data editor		
Table lookup via foreign keys	✓	✓
Basic data filters	✓	✓

Feature	Commercial	Freeware
Data type specific data editors	✓	✓
Editable result grid	✓	✗
Export and import		
Export to CSV	✓	✓
Export to SQL	✓	✗
Export to HTML	✓	✗
Export to XML	✓	✗
Import from SQL	✓	✗
Import from CSV	✓	✓
Schema Compare		
Schema/Database comparison	✓	✗
Advanced SQL difference recognition	✓	✗
Detailed SQL comparison settings	✓	✗
Timestamp comparison	✓	✗
Detailed Schema Compare reports	✓	✗
Generation of change scripts	✓	✗
Snapshots		
Snapshot creation	✓	✗
Snapshot comparison	✓	✗
Versioning/Collaboration		
Repository (MySQL only)	✓	✗
Continuous Integration/Continuous Delivery support	✓	✗
Native plugin solution for Jenkins	✓	✗

Feature	Commercial	Freeware
Other application features		
Object search	✓	✓
Code snippets/templates	✓	✗
Session browser	✓	✗
Support for JSON data types	✓	✓
JSON structure visualization	✓	✗
JSON in-place data editor	✓	✗
MySQL Events editor	✓	✗
Advanced user privilege management	✓	✗
SQL Warnings	✓	✓
Backup and Restore	✓	✗
Lock Manager for PostgreSQL and EDB	✓	✗

Getting started with Toad Edge

Contents of installation package

The Toad Edge release package contains the following:

- Installation file of Toad Edge (MSI or PKG)
- Product Documentation, including:
 - Release Notes
 - Installation Guide
 - User Guide

i **NOTE:** Toad Edge® is distributed with the latest Advanced Server JDBC Connector 4.2, MySQL Connector/J 5.1.46, MySQL Connector/J 8.0.22, and PostgreSQL JDBC 42.2.18.

Installation Instructions

- See [System requirements](#) before installation to avoid any possible issues during installation or later when using Toad Edge
- Launch Toad Edge installation file and follow the instructions in the installation wizard

How to Install Java Cryptography Extension

- Download the latest JCE files:
 - local_policy.jar
 - US_export_policy.jar
- and use them to replace the files in Toad Edge security folder
 - (...)Quest Software\Toad Edge\bin\jre\lib\security\

Additional resources

Additional information is available from the following:

Toad World [Community Site](#)

Toad Edge Toad World Community.

Globalization

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

This release is Unicode-enabled and supports any character set. 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.

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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.

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Technical Support Resources

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

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>.

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- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions
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