# Toad® Intelligence Central 4.3

## Release Notes

**April 2018**

# About Toad Intelligence Central

Toad® Intelligence Central enables enterprise users to be far more productive with their tools including Toad Data Point by centralizing automation workflows, accessing data directly, collaborating and sharing on datasets, queries and Toad files and providing a secure and established way to manage your data sprawl.

- AUTOMATE - Toad users can schedule the regular automated execution of Toad Data Point automation scripts on Toad Intelligence Central.

- ACCESS - Toad users can access Toad files and basic data files published to Toad Intelligence Central that have been shared with them. An additional data connectivity license extends Toad Intelligence Central to work across a wide range of data stores including relational database models, data warehouses, No SQL and Business Intelligence data sources like OBIEE and SAP®.

- SHARE - Objects can be shared amongst users and groups and organized collectively in a familiar folder structure, assigned tags and given a description for easy search retrieval. Administration of users and groups can be managed locally or users and groups can be imported from Active Directory®.

- SECURE - Toad Intelligence Central provides a centrally managed, secure, stable and accessible system.

Distributions of Toad Intelligence Central include a Web Server for administrative and general user access. In addition, Toad Data Point and other collaborative Toad products can directly access Toad Intelligence Central.

Data on Toad Intelligence Central can be accessed via a third party product such as Tableau for further data processing and visualization.

### *Data Connectivity*

A valid data connectivity license supports the following Business Intelligence Data Sources.

- Dell® Boomi
- Google Analytics™
- Oracle® Business Intelligence Enterprise Edition 10g and 11g
- SAP® Business Objects Query as a Web Service (QAAWS) XI 3.0, 3.1 and 4.1
- Salesforce.com®
- SharePoint® Lists using Data Services over SharePoint Server 2010 and later via OData
- Hive™
- Microsoft® Analysis Services
- OData - Generic for any OData service versions 1, 2, 3 and 4.

Intelligence Central 4.3 is a minor release, with enhanced features and functionality. See New features.

# New Features

This release of Toad Intelligence Central includes the following new features and enhancements.

# Authenticate Through the Web Server

This release of Toad Intelligence Central allows you to authenticate data sources through the Web console (Web server).

**To download a view.** If you attempt to download a view for which you are required to authenticate, you can now provide your credentials directly through the Web console (Web server). You are no longer required to use Toad Data Point to authenticate a view prior to downloading it through the Web console.

1. Select a view and click the **Download** or **Download Filtered Data** button. If personal authentication is required, the Add Authentication dialog opens.
2. Enter your credentials for the remote data source.
3. In addition, you can apply these credentials to other views from this data source that require authentication. Select **Apply this to other view objects for this source that need authentication**.

**To change personal key credentials.** You can now use the Web console (Web server) to update your credentials for a personal key on an object that has been shared with you. For example, if your password to the remote data source changes, you can update your personal key directly through the Web console.

1. In the **Home** page, select the object. In the Details pane, click the link in the **Source** field.
2. Enter the new password in the Alter Authentication dialog.

3. To apply the new password to other views from this data source, select **Apply this to other view objects for this source that need authentication**.

**To manage an object's authentication key.** You can now use the Web console (Web server) to modify the type of authentication key (shared to personal, personal to shared) or to update shared credentials for objects for which you have Manage privileges.

1. To change log-in credentials or modify the key type, in the **Home** page select the object.

2. In the Details pane, click the link in the **Source** field.

3. Specify your changes in the Alter Authentication dialog.

# Changes to Authentication Keys

This release includes an important change to Authentication Keys. A view can now have only one type of key, personal or shared. This change is designed to simplify the process of Authentication. Please review the following details.

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

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

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

i | **IMPORTANT:** During upgrade to Toad Intelligence Central 4.3, for each view that has both a shared key and a personal key, the personal key is removed. The shared key is retained. This modification occurs during the upgrade/installation process.

# Use the Web Server to Manage Objects

This release of Toad Intelligence Central allows you to edit a variety of object properties and privileges through the Web interface (Web Server). You can now edit object information, modify the schedule, alter sharing (visibility) privileges, alter management privileges, and update/modify authentication credentials. These actions are performed through the Details pane for the selected object.

## Edit Object Information

You can now edit object information through the Web interface (Web Server). You can edit information for objects you own or objects for which you have Manage privileges. Editable information include object name, description, and tags. From the Details pane you can also move the object to another folder.

- To edit object details in the Web interface, click **Home**. Then select an object to display object details. In

  the **Details** pane, select a property to edit. Modify the value and then click  .
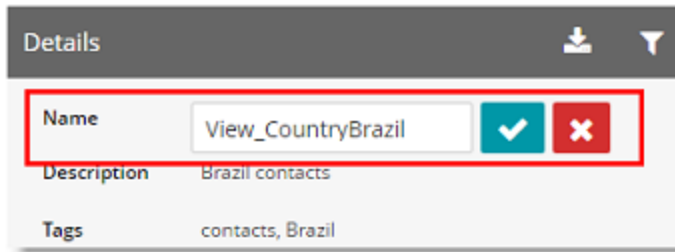
- To move the selected object, select a folder from the **Folder** drop-down list.
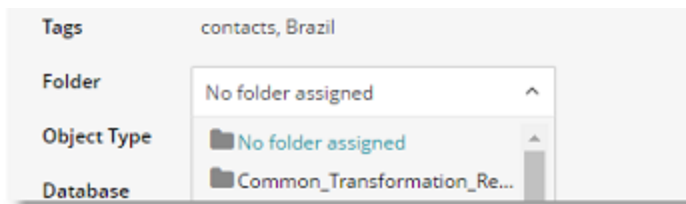


# Modify Object Visibility (Sharing) Privileges

You can now modify an object's Sharing (Visibility) options through the Web interface (Web Server). The object owner and object managers can modify object Sharing options.

1. In the Web interface (Web Server), click **Home**. Select an object. In the Details pane, click **Visibility**.

2. In the **Alter Visibility** dialog, select to either keep the object private, make the object public, or share the object with a list of users (and groups) you specify.

# Modify Object Management Privileges

You can now modify an object's Manage privileges through the Web interface (Web Server). The object owner and object managers can modify Manage options.

1. In the Web interface (Web Server), click **Home**. Select an object. In the Details pane, click **Managers**.

2. In the **Alter Visibility** dialog, specify manage privileges for the users and groups selected to share the object.

# Modify an Object's Schedule

You can now modify the execution schedule for a snapshot or an Automation script through the Web interface (Web Server). The object owner or a user with Manage privileges can modify the schedule.

1. In the Web interface (Web Server), click **Home**. Select an object. Then in the Details pane, click **Schedule**.
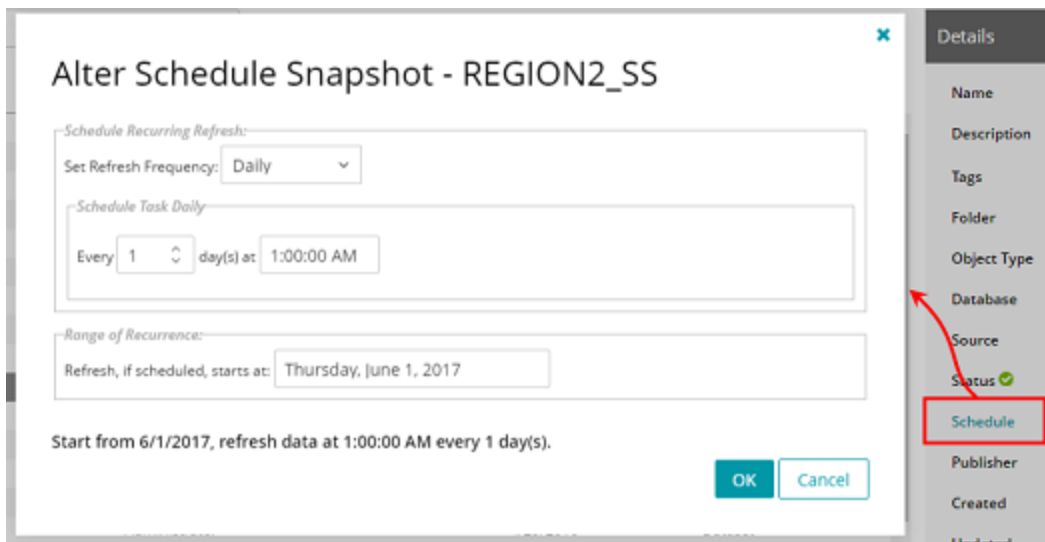
2. In the **Alter Schedule** dialog, specify scheduling options.

# Modify the Default Value for a Variable

For views and Automation scripts containing one or more variables, you can now modify the default value through the Web interface (Web Server). The default value is initially specified when the object is published from Toad Data Point.

1. In the Web interface (Web Server), click **Home**. Select an object containing a variable to modify.

2. In the lower portion of the Details pane, select the **Variables** tab. Enter a new value in the **Default Value** column. The new value is applied when a view result set is returned or when a scheduled script is executed.

**i** | **NOTE:** When downloading a view or manually running an Automation script that contains a variable, Intelligence Central allows users to enter a variable value. This run-time value applies to the current download or execution and does not change the default value.

# Change Account Used for Automation Script Execution

You can now change the account used to run an Automation script using the Web interface (Web server). Users with the Administrator role or with Manage privileges to the Automation script can change the run account.

1. In the Web interface (Web Server), click **Home**. Select an Automation script. In the Details pane, click **Credentials**.

2. In the **Alter Credentials** dialog, specify an account under which to run the script. You can also use this dialog to change the password for the run account (if Windows user account).

# Lock/Unlock an Object

You can now lock or unlock an object through the Web interface (Web Server). The object owner and object managers can lock an object. If an object is locked, only the user who locked the object and the Administrator

can unlock the object.

1. In the Web interface (Web Server), click **Home**. Select an object.

2. In the Details pane, click 🔒 in the **Locked by** field.

## Delete an Object

Users can now delete objects through the Web interface (Web Server). You can delete objects you own or objects for which you have Manage Privileges (unless the object is locked by another user).

- To delete an object through the Web interface, click **Home**. Select the object and click ❌.

## Delete a Folder

Users can now delete folders through the Web interface (Web Server). You must own or have Manage privileges for all objects in the folder to delete it.

- To delete a folder through the Web interface, click **Home**. Select the folder and click ❌.

## Create a Folder

Users can now create folders through the Web interface (Web server).

1. To create a folder, place your cursor over any folder and click ➕.

2. In the Create Folder dialog, select a folder to serve as the parent folder and then click **New Folder**.

3. Enter a folder name and click **OK**.

## Move Objects and Folders

On the Home page, you can now drag-and-drop an object or folder to move it. Only users with the Administrator role can move objects and folders.

# Administrator Activities

## Run a Health Check

This release provides a new feature that allows you to run a health check on the Intelligence Central server to check for objects with data integrity anomalies. Users with the Administrator role can run a health check and repair objects.

1. In the Web interface (Web Server), select **Administration | Server | Health Check Dashboard**.

2. To run a health check, click **Run Health Check** in the Health Check Dashboard. The report is displayed on the same page and provides a list of objects with anomalies, as well as issue descriptions.

3. To repair an object, select the object in the list and click **Repair**.

4. To instruct Intelligence Central to automatically run a weekly health check, select the **Settings** tab. You can also enable an email which is sent to users with the Administrator role and includes the results of each automatic health check.

# General

**Version Number.** In this release of Toad Intelligence Central, the version number was changed so that it now corresponds to the concurrent release of Toad Data Point.

**Cross-Connection Query Optimization.** This release includes many improvements in the area of cross-connection query optimization designed to significantly improve performance when executing a query that joins two different data sources.

See Resolved issues for more enhancements and resolved issues in this release of Toad Intelligence Central.

# Deprecated Features

**The Admin Console.** Beginning with Toad Intelligence Central 4.3, the Admin Console is no longer required and is not included in the Toad Intelligence Central installation. The administrative functionality of the Admin Console is now superseded by the Web Server. The activity of mapping/editing data objects is best performed through Toad Data Point.

After installing Intelligence Central 4.3 or later, it is recommended that you uninstall any earlier version of the Admin Console as some functionality may no longer be supported.

**Toad for Oracle Automation Apps.** Beginning with Toad Intelligence Central 4.3, you can no longer run Automation Apps published from Toad for Oracle. You can continue to publish Toad for Oracle Automation Apps, but the ability to run them in Intelligence Central is no longer supported.

**Toad for Oracle Installation.** Beginning with Toad Intelligence Central 4.3, Toad for Oracle is no longer installed as part of the Toad Intelligence Central installation.

**Run in Debug Mode.** In Toad Intelligence Central 3.3, the **Run in debug mode** option was removed from the Web console (Web server). It is no longer necessary to enable/disable debug mode. Debug-level information is always logged and automatically included in the support bundle. This release also includes improved logging strategies and archiving methods.

# Resolved Issues

The following is a list of issues addressed in this release of Intelligence Central.

| Resolved Issue | Issue ID |
| --- | --- |
| **Installation:** During installation, additional host environment information is detected and noted in the installation log. | TIC-7620 |
| **Installation (Documentation):** If you plan to install in a virtual machine (VM) environment and you require more space than is available, the Deployment Guide now includes instructions for adding a virtual disk (VMDK) for storing the Data Files folder. | TIC-7620 |
| **Logging:** Improved logging strategy to reduce log size, in particular when a large number of Automation script errors occur. | TIC-7787 |
| **Oracle**: Corrected an issue that was preventing successful execution of an Oracle WITH clause. | TIC-7957 |
| **Oracle:** Significantly improved performance when refreshing a snapshot from an Oracle data source that returns a very large number of rows. | TIC-7895 |
| **Reports:** Corrected an issue in which all report data in some cases did not display when scrolling. | TIC-7518 |
| **Reports:** Corrected an issue that in some cases displayed the wrong object name when the object was selected in the "Objects Used" report. | TIC-7020 |
| **User Interface (Web console):** After a default variable is modified, the information in the "Updated" field in the Details pane for the object is now up-to-date as expected. | TIC-7731 |
| **User Interface (Web console):** After refreshing a snapshot, clicking the Download Filtered Data button multiple times opens an empty Download Data window. | TIC-7231 |
| **Web Server (Documentation):** The Toad Intelligence Central Deployment Guide now includes general instructions for configuring the Toad Web Server to use HTTPS protocol. | TIC-7186 |
| **Web Server:** In the Enter Variables dialog, a tool tip is displayed for each variable description. This is useful for very long descriptions. | TIC-7382 |
| **Web Server:** When downloading or filtering a data object or running an Automation script, in the Enter Variables dialog you can now use NULL as a value by selecting NULL from the drop-down list. | TIC-7384 |

**Resolved Issues in Toad Data Point**—If you are using Toad Data Point to publish objects to Intelligence Central or to run Automation scripts on Intelligence Central, you might want to also review resolved issues in the Toad Data Point Release Notes.

# Known Issues

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

## Installation, upgrade, licenses

**Table 1: Known issues with installation, upgrade, and migration**

| Known Issue | Issue ID |
|---|---|
| Installation of Toad Intelligence Central will fail for a Windows user with administrator permissions if User Account Control Settings is set to **Never notify**.<br><br>*Workaround*: Set User Account Control Settings to default or above. To open User Account Control Settings, click **Start \| Control Panel** and in the search box type **uac**. | TIC-4858 |
| The Toad Intelligence Central server runs as three services that start automatically when Windows starts. On installation, services run under the Local System account. Changing the user of any of the services can cause a license failure.<br><br>*Workaround*: Re-enter the license to Toad Intelligence Central following the Product Licensing instructions. | TIC-2306 |
| In Toad Intelligence Central 4.3 (or earlier), after migrating data files (ProgramData\Quest Software\Toad Intelligence Central\) from one Toad Intelligence Central server installation to another, the migrated Automation scripts set to run under an account other than the default user account do not run successfully.<br><br>*Workaround:* Contact Quest Support for a workaround. See the following knowledge base article for more information: https://support.quest.com/toad-intelligence-central/kb/250694/migrating-the-tic-data-folder-causes-published-scripts-execution-to-fail. | QAT-12502 |

## Log in, users and groups

**Table 2: Known issues with log in, users and groups**

| Known Issue | Issue ID |
|---|---|
| On adding users to Intelligence Central from Active Directory and two of those users have the same username (different domain) then only one user will be added to Intelligence Central.<br><br>Each username on Toad Intelligence Central must be unique. | 1922 |

| Known Issue | Issue ID |
|---|---|
| In some instances, Intelligence Central may not release some connections after the user disconnects. A user may encounter a "number of connections exceeded" message when attempting to connect after the maximum number of connections has been reached. This release of Toad Intelligence Central now allows up to 1024 connections (sessions).<br><br>*Workaround*: If a new connection cannot be opened because the maximum number of connections has been reached, restart the Toad Intelligence Central server. | N/A |
| If the machine hosting Toad Intelligence Central is not part of a domain then it will not be able to validate an **Active Directory** user log in from the Web Server, the Admin Console, or a client application (Toad Data Point). | 3253 |
| **Web Server**: When the Administrator resets the password for an Intelligence Central user or enables an Intelligence Central user from a computer that does not have an email client installed, there may be problems if the Administrator chooses to email the new password to the user. | 4087 |
| **Web Server**: You may experience a failure to log in to a web browser from Windows Server 2008 (64 bit) using Internet Explorer.<br><br>*Workaround:* Disable Internet Explorer Enhanced Security Configuration. See also Microsoft Technet: https://technet.microsoft.com/en-us/library/dd883248(v=ws.10).aspx<br><br>1. From the Windows Start menu click **All Programs | Administrative Tools | Server Manager** to open the Server Manager.<br>2. Under Security Information, disable **Configure IE ESC**. | 2977 |
| **Web Server**: Failure to connect to a web browser from Windows Server 2012 using Internet Explorer.<br><br>*Workaround*: From Internet Explorer click Tools | Internet Options | Security. Add the Web Server as a trusted site to the Internet Explorer Enhanced Security Configuration. | 3943 |
| Connections from **Toad Data Point** to Toad Intelligence Central: Failure to connect to Toad Intelligence Central via a proxy server.<br><br>*Workaround:* Ensure your Proxy Server is able to connect to the remote host where the Toad Intelligence Central server is running and supports HTTPS traffic. | 2086 |
| **Toad Data Point 3.8**: The Administrator role functionality is not recognized when editing and deleting Intelligence Central groups. An Intelligence Central group can be deleted by the owner of the group and root Administrator only.<br><br>*Workaround:* Users with the Administrator role can use the Web interface (Web server) to edit and delete Intelligence Central groups. | QAT-6929 |

# Objects published to Intelligence Central

**Table 3: Known issues working with objects published to Intelligence Central**

| Known Issue | Issue ID |
|---|---|
| When your configuration of Toad Intelligence Central services has been set to run under a Windows account other than "Local System" there is a problem where on upgrade Automation Scripts no longer run. The error is a Licensing Error: License of Toad Data Point instance on the Intelligence Central server is not valid.<br><br>*Workaround*: There are three steps to the workaround.<br><br>1. Log in to the Windows computer where Toad Intelligence Central is installed using the Windows credentials that Toad Intelligence Central services have been configured to run under.<br>2. Open Toad Data Point.<br>3. Select Help \| Licensing. Enter a valid Toad Data Point license in the space provided. | 2306 |

# Data connectivity license: Objects from data sources

**Table 4: known issues with objects from data sources**

| Known Issue | Issue ID |
|---|---|
| Snapshots can be stuck in a permanent 'Running' state following an unexpected event, for example if Toad Intelligence Central stops unexpectedly. While the snapshot is permanently 'Running' the snapshot data cannot be refreshed.<br><br>*Workaround*: Restart the Toad Intelligence Central server. Instructions are provided in the *Toad Intelligence Central Deployment Guide*. | 4598 |

**Table 5: Known issues - data source specific**

| Known Issue | Issue ID |
|---|---|
| **Generic ODBC**: Cannot map to a Generic ODBC data source if the DSN contains spaces. | 2965 |

| Known Issue | Issue ID |
|---|---|
| **Google Analytics**: Mapping tables with start_date and end_date on a where clause have the following requirements:<br><br>1. Acceptable values for start_date and end_date are:<br>   • today<br>   • yesterday<br>   • <N> daysAgo (where <N> represents the number of days)<br>   • YYYY-MM-DD (year/month/day date format)<br>2. If there is a subquery then the start_date clause must in the innermost subquery.<br><br>Note that if optimizations are skipped then the start_date and end_date won't take affect. | 795 |
| **Oracle BI Enterprise Systems**: Unknown error occurred while processing the query. The Oracle BI Enterprise Systems data source has timed out on the query.<br><br>*Workaround*: Rewrite your query to return smaller datasets then join the results. For example you may want to query data one quarter at a time rather than for a whole year. | 2099 |
| **Apache Cassandra™:** Mapping tables using the CQL (Cassandra Query Language) protocol some columns are not accessible.<br><br>*Background:* There are issues around declaring a single column 'statically' in the CREATE COLUMN FAMILY statement, then adding other columns 'dynamically', as discussed in the *Mixing static and dynamic* section of http://www.datastax.com/dev/blog/thrift-to-cql3: "the upgrade to CQL3 will be less straightforward than in the case of pure static or pure dynamic column families. Namely, CQL3 still consider the column family static because the definition of [ADDRESS is static]. But since the [other] columns themselves are not declared … you will not be able to access them for CQL3" | 3024 |
| **Apache Cassandra:** Attempting to connect from Windows machine with IPv6 enabled (which includes, for instance, Windows 7 by default) to an **Apache Cassandra** server on the same machine using the host name "localhost" fails with the message "Could not connect client socket: Already open".<br><br>*Workaround:* Connect with the equivalent IPv4 address instead, for example "127.0.0.1". | 12763 |
| **Apache Cassandra:** Databases must be configured to use an Order Preserving Partitioner in order to support range queries on the identifier column. | 11518 |
| **Apache Cassandra:** Mapping tables with dynamic super columns whose names contain dynamic column names is not supported. | 11506 |
| **Apache Cassandra:** Toad Intelligence Central does not support column-oriented tables. Toad Intelligence Central is only able to discover tables in the key-value model. | |
| **MongoDB:** For a MongoDB 3.0 (or later) connection, the user must have Read/Write privileges in the MongoDB database in order to view sub-tables (MongoDB embedded documents). | 5520 |
| **MySQL:** Character data not encoded in UTF-8 is truncated at the first non-ASCII character.<br><br>For example the word Protegé from a column encoded in latin1 is truncated to Proteg. | 12668 |
| **Toad Data Point 4.0 - SAP ASE:**  In an SAP ASE time type column, fractional seconds might be unexpectedly trimmed from data. This issue was encountered in a data object (snapshot) published from an SAP ASE data source using Toad Data Point 4.0 (or earlier). | QAT-7839 |

# Third party connections to Toad Intelligence Central

**Table 6: Known issues using third party connections to Toad Intelligence Central**

| Known Issue | Issue ID |
| --- | --- |
| Third Party Connections require default-character-set=utf8 | 2048 |

# System Requirements

Before installing Toad Intelligence Central 4.3, ensure that your system meets the following minimum hardware and software requirements.

## Toad Intelligence Central server

Ensure your hardware is appropriate for the expected usage.

**Table 7: Hardware requirements of the Toad Intelligence Central server host**

| Configuration | Connected Users[1] | Active Users[2] | Logical Processors[3] | Memory | ProgramData\Quest Software\Toad Intelligence Central\[4] | Network Capacity |
|---|---|---|---|---|---|---|
| Desktop | 20 | 1 - 5 | 2 | 8 GB | 500 GB | 100 Mbit/s |
| Small Server | 50 | 6 - 15 | 4 | 32 GB | 2 TB dedicated data disk or striped over 2-3 spindles | 200 Mbit/s |
| Large Server | 100 | 16 - 30 | 8 | 64 GB | 4 TB striped over 3-4 spindles | 400 Mbit/s |

i | **NOTES:**

1. **Connected Users** defines the maximum number of users who may be connected to Toad Intelligence Central at the same time.

2. **Active Users** defines the number of connected users who may be executing queries or publishing objects at the same time.

3. **Logical Processors** defines the number of sockets multiplied by the number of cores.

4. **ProgramData\Quest Software\Toad Intelligence Central\** stores user information, data source connection information and mappings, snapshots and datasets. The location of this folder is defined when Toad Intelligence Central is installed. The default location for the folder is \ProgramData\Quest Software\Toad Intelligence Central\.

i | **TIP:** For higher numbers of Active Users, disk performance (on ProgramData\Quest Software\Toad Intelligence Central\) will improve significantly if the data is striped across multiple spindles to enable concurrent I/O operations. This is especially true when Intelligence Central snapshots or datasets are heavily used.

**Table 8: Software requirements of the Toad Intelligence Central server host**

| | |
|---|---|
| Operating System | Windows® 7 (64-bit) Service Pack 1 (SP1) |
| | Windows 8.1 (64-bit) |
| | Windows 10 (64-bit) |
| | Windows Server® 2008 (64-bit) |
| | Windows Server 2008 R2 (64-bit) |
| | Windows Server 2012 (64-bit) |
| | Windows Server 2012 R2 (64-bit) |
| | Windows Server 2016 |
| .NET Framework | .NET 4.5.1 or above is required. |
| Additional Software | **Update for Universal C Runtime in Windows.** See KB2999226 or Visual C++ Redistributable for VS 2015 for more information. |
| ODBC Drivers | To connect to ODBC data sources, supporting ODBC drivers and necessary client files must be installed on the Toad Intelligence Central server host computer. |

> **i** | **TIPS:**
>
> If your environment includes Toad Data Point refer to the following section: **Working with Toad Data Point**.
>
> If your environment includes Toad for Oracle, refer to the following section: **Working with Toad for Oracle**.

| | |
|---|---|
| DB2® | DB2 ODBC driver (included in the Toad Data Point install) |
| | DB2 client |
| | DB2 catalog |
| MySQL | MySQL Connector/ODBC 5.1.6 |
| Oracle | Oracle (32 bit and 64 bit): 11g instant client + ODBC supplement |
| | OCI client |
| | Tnsnames.ora file |
| SQL Azure | SQL Server Native Client 10.0 |
| SQL Server® | SQL Server Native Client 10.0 |
| Sybase® | Sybase ODBC driver (included in the Toad Data Point install) |
| Teradata® | Teradata ODBC driver |
| | Teradata .Net Data Provider |
| Other ODBC | 32-bit, System DSN |

| Working with Toad Data Point | Install Toad Data Point on the Toad Intelligence Central server host computer. Toad Data Point is automatically installed when your use the Toad Intelligence Central Installer to install the Intelligence Central server. This ensures compatibility of features and drivers for objects published through Toad Data Point and is required in order for Toad Data Point automation scripts to execute on Intelligence Central. |
|---|---|
| | Following installation of Toad Data Point on the Toad Intelligence Central host computer, start the Toad Data Point application and add your Toad Data Point Professional license key. Adding your license key to Toad Data Point is required, however Toad Data Point installed via the Toad Intelligence Central installer is not counted in the Toad Data Point license count. |
| | **Automation scripts**—If executing Automation scripts on the Toad Intelligence Central server, review the following: |
| | • **Email SMTP port**—If an Automation Script includes an instruction to send an email then in order for that email to be sent the Toad Intelligence Central server must have access to an email SMTP port. |
| | • **Microsoft Excel**—If an Automation Script includes an instruction to run a macro in an Excel® spreadsheet, then Microsoft Excel must be installed on the Toad Intelligence Central host computer for the macro to successfully execute. |
| Working with Toad for Oracle | Install Toad for Oracle on the Intelligence Central server host computer. If the Toad Intelligence Central Server Installer is used, Toad for Oracle is automatically installed immediately following the Intelligence Central installation. Toad for Oracle is required in order to run Toad Automation Apps on Intelligence Central. |
| | After Toad for Oracle is installed, do the following: |
| | • Start Toad for Oracle and enter a license key. |
| | • Ensure a corresponding Oracle Client is also installed. If installing Toad for Oracle 64-bit, install a 64-bit Oracle Client. |
| | **i** \| **NOTE:** The 64-bit version of Toad for Oracle is automatically installed when the Intelligence Central Server Installer is used. |

# Toad Intelligence Central Web Server

Use the Toad Intelligence Central installer to install the Toad Intelligence Central Web Server on the same host computer as Toad Intelligence Central. The minimum requirements of the Toad Intelligence Central Web Server are as follows.

| IIS Express | The Toad Intelligence Central Web Server requires Microsoft IIS Express be installed. Installation of IIS Express is included in the installer and will run only if required and by your agreement. |
|---|---|

| Port | Port 80 is reserved for the web port. During installation, you can change this if required. |
| --- | --- |
| | It is not advisable to install other web servers on the Toad Intelligence Central server host. |
| | Ensure the port is open for TCP inbound connection. Ensure the Windows firewall and any other firewalls affecting the Toad Intelligence Central server host allow access to the Web Server. |
| Web Browser | Access Toad Intelligence Central from any of the following Web browsers: <br><br> • Internet Explorer® 10 (or later). Compatibility View not supported. <br><br> • Chrome™ browser: latest stable version <br><br> • Firefox®: latest stable version <br><br> • Safari®: latest stable version |

# Data connectivity license - data source connections

A valid data connectivity license supports the following data sources.

| Business Intelligence | Dell Boomi |
| --- | --- |
| | Google Analytics |
| | Oracle Business Intelligence Enterprise Edition 10g and 11g |
| | SAP Business Objects Query as a Web Service (QAAWS) XI 3.0, 3.1 and 4.1 |
| | Salesforce verified against API V29 - Winter 2014. |
| | SharePoint Lists using Data Services over SharePoint Server 2010 and later via OData |
| | Hive versions 0.10 (CDH 4.2), 0.13, 1.1 (CDH 5.12), 2.1.0. HiveServer2 is supported. |
| | Microsoft Analysis Services |
| | OData - Generic for any OData service versions 1, 2, 3 and 4. |
| Relational | ODBC-compliant databases. *See above section on ODBC drivers for details.* |
| Cloud | Azure Table Services |
| | Apache Cassandra™ versions 1.0.5, 1.2.3, 2.0.9, 2.1.7, 3.0.5, 3.4, and 3.11.0. |
| | Apache HBase™ versions 0.89, 0.90.3, 0.98.6, and 1.2.6. |
| | MongoDB™ versions 2.0.1, 2.6, 2.6.5, 3.0, 3.2.4, and 3.4.6. |
| | Amazon DynamoDB |

# Product Licensing

Toad Intelligence Central is shipped with a trial key that enables a 90 day open trial license to Toad Intelligence Central. Use this key to evaluate Toad Intelligence Central without restriction.

At the end of the 90 day trial, if a Data Connectivity license has not been entered, your access to Toad Intelligence Central will be limited to Toad Intelligence Central Community Edition. Entry of a Data Connectivity license is required to use Toad Intelligence Central with Data Connectivity. Any Toad Intelligence Central license from a prior release can serve as a Data Connectivity license for this release.

Any user can enter a license. Administrator credentials are required to remove a license.

***To activate a license***

1. From a web browser, log in to Toad Intelligence Central.
2. Select **Administration | Licensing**.
3. Click **Add License**.

# Getting Started with Toad Intelligence Central

## Upgrade and Installation Instructions

Refer to the *Toad Intelligence Central Deployment Guide* for instructions.

This release of Toad Intelligence Central has been tested with and supports an upgrade from either of the two previous versions. For example, an upgrade to Intelligence Central 4.3 from either version 3.3 or version 3.2 has been tested and is supported.

> **i** | **NOTE:** The Toad Intelligence Central Data folder stores user information, data source connection information and mappings, snapshots and datasets. This folder is not affected by an upgrade. By default, the location of the Toad Intelligence Central Data folder is ProgramData\Quest Software\Toad Intelligence Central\. If you upgraded from Intelligence Central 3.2 (or earlier), the location of this folder might be ProgramData\Dell\Toad Intelligence Central.

## Additional Resources

To find additional information, read product documentation, and connect with the community, see the following:

- Product Documentation
- Toad Intelligence Central Community
- Toad World

# 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, Central and Eastern Europe.

# About Us

## We are more than just a name

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

## Our brand, our vision. Together.

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

## Contact Quest

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

## Technical Support Resources

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

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

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

**Legend**

**i** | **IMPORTANT**, **NOTE**, **TIP**, **MOBILE**, or **VIDEO:** An information icon indicates supporting information.

**!** | **CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.**