



# Data Guru and Demand Guru Release Notes

January 2024 (R38) Release

January 6, 2024

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# Preface

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Welcome to the Data Guru and Demand Guru Release Notes. Please read through this entire document to ensure you have a full understanding of the installation procedure, as well as known issues within the application.

## Related Documentation

In addition to these release notes, documentation for Data Guru and Demand Guru includes the following:

- [Data Guru Help](#)
- [Demand Guru Help](#)
- [Trend Cloud Reference Guide](#), a Microsoft Excel (xlsx) file

## Customer Support

Data Guru and Demand Guru users have access to the [support.coupa.com](https://support.coupa.com), which acts as a gateway to a vast array of resources, data, tools, and knowledge.

# Data Guru January 2024 (R38) Release

## What's new

### Platform Table Export supports column mapping

The Platform Table Export action now supports the ability to map columns between the input and output tables. On the Configuration tab, you can optionally map columns as needed. Keep the following in mind when mapping platform table export columns:

- If no columns are mapped, Data Guru will attempt to map columns that match by both name and data type. All auto-mapped columns are exported.
- If you are mapping columns, all required columns (indicated by a red exclamation point) must be mapped.
- You can map columns that differ by name between input and output tables. However, data types must match for mapped columns.
- When updating existing records, keep in mind that unmapped columns will result in null values for the target records.

### Platform Table Export includes output options for UDDB and DDM uploads

The Platform Table Export action now provides two options when exporting to UDDBs and DDMs:

- **Update and append** - This is the default option. Existing records are updated and new records are added. The primary key from the input table is used and associated records are updated.
- **Clear all and insert** - Clears all existing records and all records from the input table are added.

When you upgrade a project, the "Update and append" option is selected by default.

### Platform Table Import supports filtering

When pulling table records from an asset on the platform, you may not want to import all records from the source table. You can now apply a filter when defining the Platform Table Import action to select a subset of records for import into your local workspace. The filter supports Equals, Not Equals, and Contains operators. Filters can be applied to string, integer, float, date and boolean values.

## Resolved issues

There are no resolved issues in this release.

## Known issues

There are no new known issues for this release

### Known issues carried over from previous Data Guru releases

**Using the Platform Table Export action to upload to Supply Chain platform asset containing Int64 or BigInt data types**

In this release, Supply Chain API includes support for more data types to facilitate the use of model tables, including **long**, **short**, and **byte**. Data Guru maps the **Int64** data type to **long** instead of **int**.

Existing Data Guru projects that have been created with release 2020.06, and also contain Platform Table Export actions with **Int64** columns in the input table, will result in the following validation error:

### **Selected input table does not match the existing output table schema**

This error condition will prevent you from making any changes to the action until it is cleared. However, the action will still attempt to execute, and it could be successful if the values in the **Int64** columns do not exceed the maximum limit for that data type in LLAPI.

### **Resolution**

Keep your existing data and tables in Supply Chain, and create a new Data Guru Platform Table Export action to build a new collection from the dataset, which resolves the schema match validation. After the new action is created, the old action can be deleted.

### **Upgrading from very old releases of Data Guru**

Recent versions of Data Guru cannot always successfully upgrade projects created prior to Release 2019.09. To upgrade an old Data Guru project, Coupa recommends the following:

1. Open the old project using Data Guru 2019.09.
2. Save and close the project.

Once these steps have been performed, the project will open in subsequent releases.

### **NUMERIC fields in Data Guru workflows not supported in Model Studio**

When creating a workflow that interacts with a Supply Chain Guru X model for use in Supply Chain's Modeler or App Studio, do not reference the model's NUMERIC fields in the

workflow. The `_NUMERIC` fields are not needed in llama.ai and can result in a schema mismatch. This also applies to models upgraded from version 2020.03.

### **Platform Table Export action**

#### **Unsupported Type exception**

If you use Supply Chain to upload a new database without a primary key, a column labeled `llcp_row_id` is automatically added with type `BIGINT`. However, LLAPI does not support type `BIGINT` (as of 06/04/2020, release 5.1.0). If the action is executed with this additional column, an exception labeled `Unsupported Type` is generated, regardless of whether all columns in the original collection are valid.

#### **Database and table name restrictions**

Currently, the output platform database and table name are each limited to 64 characters and can include only letters, numbers, and underscores.

#### **Aggregation action - cannot map computed field containing function to multiple destination fields**

The Aggregation action returns an execution error when configured with a computed field that contains a function and is mapped to two or more destination fields.

**Workaround:** To execute the action successfully, remove the function from the computed field or ensure that the computed field is mapped to only one destination field.

#### **SAP BEx Import action - performance degradation during configuration when selecting large number of characteristics and sub-characteristics**

This issue has occurred as the result of a change made to check for duplicate characteristic names causing execution errors.

#### **Table data view - sorting table results in inaccurate 'Records in Table' count**

When the **Grid Maximum** is set to a number less than the number of actual records in the table, and a sort is applied, the **Records in Table** count is incorrectly set to match the **Grid Maximum**.

**Workaround:** Set the **Grid Maximum** to **0**, which will display the correct count.

**Update action - Error when updating a new field by renaming it to match an existing field**

**Workaround:** Click **OK** when the error displays, and then execute the action. It should execute successfully, and the field should update with the correct value.

**Table Union action - Info hover on radial menu not scrollable**

If you configure this action with a large number of tables, the table names may not all be visible in the list.

**Pie charts percentage sum may be slightly larger than 100%**

Within the pivot table/chart feature, the percentages that appear in pie charts may sum to slightly more than 100% due to rounding issues.

**Distance Calculation action - yellow beans not displayed for missing lookup fields**

When you configure this action to point to a lookup table in the configuration, and one of the columns from the lookup table is deleted (for example, using the Delete Column action), attempting to execute this action fails.

**Run SSIS Package action - failure after replacing a package parameter with a project parameter**

If you replace a package parameter in this action with a project parameter, attempting to execute the action fails.

Upload/Solve SCG Model Export

When the action is configured with a SupplyChainGuruX.com connection and both **Upload** and **Solve** are selected, only the Baseline scenario will be run.

### **Demand Guru Clustering action limitations**

This action does not reflect additions, deletions, or updates to the **Cluster Definition** list unless the action is opened.

Configuring the action to run a cluster definition with a period (.) in the cluster definition's name results in the following execution error:

**Action failed to prepare: The specified schema name either does not exist or you do not have permission to use it.**

### **Data table view limitations**

For data displayed, if the **Data Table View Row Limit** is set to a value which is less than the total number of rows in the target table:

- You are shown an incomplete set of records
- You are shown an incomplete set of distinct values to filter on
- If you apply a filter, you are filtering the incomplete record set instead of retrieving a new set of records based on the filter

For value filters:

- When you click the filter button for a column, you are shown a list of the first 1000 distinct values for the column.
- If more than 1000 distinct values exist, you do not see the other possible values, which can be misleading.

### **SQL Import action using Oracle omits warning when truncating decimal values**

In a SQL Import action that uses an Oracle database, when a decimal value is truncated, the execution status incorrectly reports **Complete** instead of **Complete with Warning**.

**Text Parsing action execution fails when SAP HANA table has no key/auto-id field**

The Text Parsing action requires the Target table to have a unique key to preserve data integrity when updating rows.

You must create the table with a key or auto-increment field specified, or manually add the key or auto-increment in a SQL Operation transform.

# Demand Guru January 2024 (R38) Release

## What's new

There are no new features for this release.

## Resolved issues

There are no resolved issues in this release.

## Known issues

There are no new known issues in this release.

### Known issues carried over from previous Demand Guru releases

#### **Workbench - Time Bucket value reverts to Day if no time series generated**

On the workbench Definition tab, the **Time Bucket** value you select is not persisted if no time series are generated, and the value reverts back to **Day**.

#### **Application title and default mode when opening project**

When you open a project after launching Demand Guru in the previous project, and then close the project without exiting the application, the application title and default mode will be Demand Guru.

**Demand Modeling tab: Clustering Definition not reset to 'None' when previously selected definition is deleted**

When no other cluster definitions have been generated, **Automatic** is selected and nothing displays within the Demand Modeling tab, since clusters have not been generated for this definition. When more than one cluster definition has been generated, the first generated cluster definition is selected on the Demand Modeling tab.

# Installing the products

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This section provides all the information needed for successful installation of Data Guru and Demand Guru, which are both 64-bit applications.

When installing Data Guru and Demand Guru version 36.0.0, you should first uninstall the previous version of the products.

## System Requirements

### Recommended desktop system specifications

Data Guru and Demand Guru can run on most modern desktop and laptop machines with few system limitations. Additional system performance allows for faster processing of larger data sets. With that in mind, the following system specifications are recommended:

- Quad core i7 or equivalent processor
- 3 GHz+ processor
- 32 GB RAM
- 500 GB SSD (1 GB for installation)
- 1920X1280 screen resolution
- Supported Microsoft Windows environments
  - Windows 10 (64-bit)
  - Windows Server 2019
- Internet connectivity required for certain functionality

While you can usually install and run Data Guru and Demand Guru using systems that do not meet these specifications, it is not recommended, particularly if you will be transforming your data on the local client machine.

### *Additional System Specifications*

Data Guru allows users to transform their data on a cloud or local server, and you can take advantage of this capability to customize your system in a manner that is the most effective and cost-efficient for you.

Component	Basic Client	Standard Client	Low End Server	Standard Server	High Performance Server
Purpose	User client machine for day-to-day work		Dedicated data server to be accessed by client machine		
Data (GB) *	4 or Less	6-10	10-30	30-60	75 or greater
CPU	Intel I7	Intel I7	Single Xeon processor	Single Xeon processor	Dual Xeon Processor
Memory (GB)	6	8	32	64	128 or greater
Hard Drive	500 GB HDD	240 GB SSD	RAID Array	RAID Array	SAN/SSD RAID Array
DBMS	SQL Express	SQL Standard	SQL Standard	SQL Enterprise	
OS	Win 10 (64-Bit)	Windows Server 2019			

\* The relative size of the database on the client machine which is supporting the data transformation process.

## Prerequisite Software

The following software is required and installed if necessary:

- R-Install 3.3.2
- Microsoft Visual C++ 2013 Redistributable Package (x64)
- Microsoft Visual C++ 2013 Redistributable Package (x86)
- Microsoft Visual C++ 2010 SP1 Redistributable Package (x64)
- Microsoft .NET Framework 4.7.1 Full
- Microsoft SQL Server 2019 Express RTM LocalDB (x64)

You can use a variety of database systems. This install provides a copy of SQL Server LocalDB that can be used with the Data Guru and Demand Guru applications. Other versions of SQL Server (such as SQL Server 2016 and 2017) are also supported.

## SQL Server Permissions

If your workspace database is on a SQL Server instance that is not a SQL Server LocalDB or SQL Server Express instance, then the following permissions are needed for the workspace database:

- **db\_ddladmin**
- **db\_owner**

## File Locations

Several file locations are used by the Data Guru and Demand Guru applications. These are created for each application during installation and include the following:

- [Application installation folders](#)
- [Application data folder](#)
- [User project folders](#)
- [User configuration data folder](#)

Each product (Data Guru and Demand Guru) has its own copy of each directory path. The path that gets is used is determined based on which application you open first in a single worksession. Once you open the application for a product, that same folder is used for the duration of the session, even if you toggle between applications.

### Application installation folders

During installation, Data Guru and Demand Guru application installation files are placed under the appropriate Program Files folder on the system drive:

- C:\Program Files\Coupa\DataGuru
- C:\Program Files\Coupa\DemandGuru

### Application Data Folder

Data Guru and Demand Guru each use a folder common to all users of their respective application:

- C:\ProgramData\LLamasoft\DataGuru\Diagnostics
- C:\ProgramData\LLamasoft\DemandGuru\Diagnostics

Currently, this folder is used solely to store the Diagnostics sub-folder for the application's diagnostic output, which is written to a file that is named using the format **dg-YYYYMMDD.json** (for example, dg-20190130.json).

The application writes to this file when it encounters an unexpected condition or when an internal program exception occurs. Currently, you must send this file manually to Coupa if you require assistance in resolving a program error. Later application versions may automatically send this file to Coupa as errors occur. The file is formatted in JSON and can be programmatically parsed.

**Note**

This file contains only error information; trace information is not included. Whenever this file has contents, it is of interest to the development team for quality purposes.

In the future, additional data common to all users of the application will reside in the Application Data folder.

**User project folders**

During initial start-up, a set of user project folders are created, which by default are placed in one of the following locations depending on the application being opened:

- C:\Users\current.user\Documents\LLamasoft\DataGuru\Projects
- C:\Users\current.user\Documents\LLamasoft\DemandGuru\Projects

These locations are always offered when creating a new project; however, you can override the default and select another location.

**User configuration data folder**

Application configuration information for each application is stored in the user.config file located in the application's AppData\Local folder of the current user:

- C:\Users\<current.user>\AppData\Local\LLamasoft\DataGuru
- C:\Users\<current.user>\AppData\Local\LLamasoft\DemandGuru

Typical user configuration information includes the most-recently-used lists for projects and last accessed folder locations. This information is independent of projects.

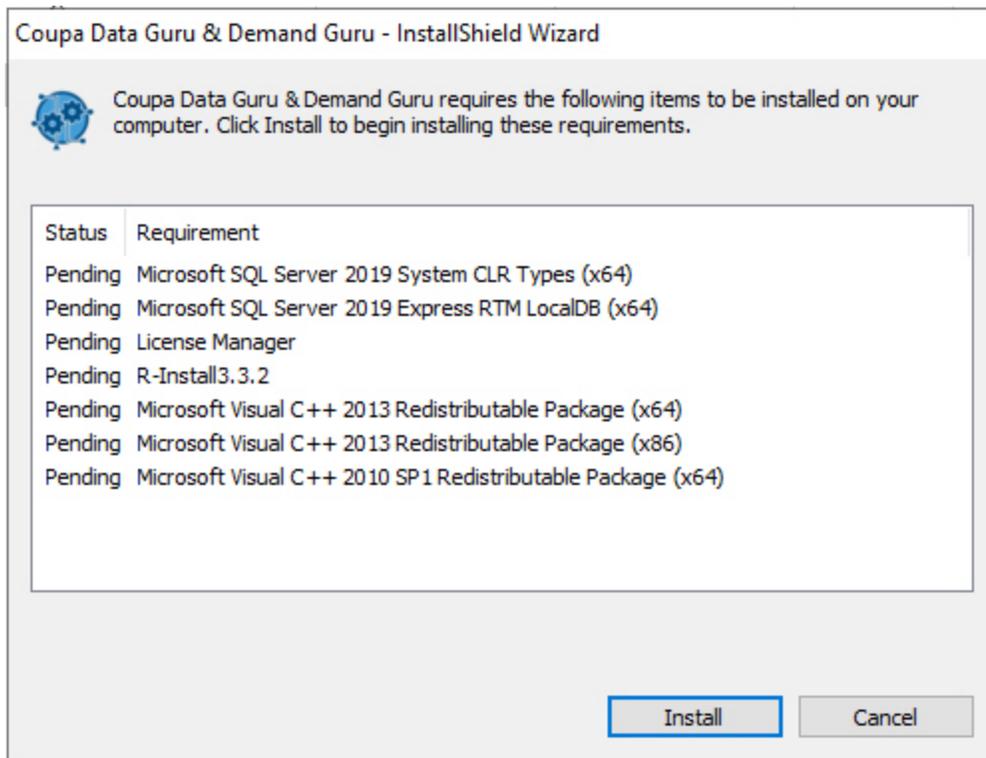
**Note**

The AppData folder is a hidden folder. You must disable the Hidden attribute on this folder to view its contents.

## Installation Steps

1. Download the installation file **DGuru.exe** from [support.coupa.com](https://support.coupa.com).
2. Run **DGuru.exe** as an administrator.
3. If prompted to allow the installer to execute, click **Yes**.

The installer first checks to see whether any required items must first be installed before beginning the Data Guru and Demand Guru installation. If any missing items are detected, they are listed as in the following example.



The specific requirements depend on what is already installed on your computer.

4. Click **Install** to install the required items. Note that you may be prompted by a User Account Control screen to allow the items to be installed. After providing confirmation, it can take several minutes as the items are installed, and a series of screens display indicating the status of each item during this process.

During this part of the installation, you can optionally install Microsoft SQL Server 2019 Express RTM LocalDB (x64). We recommend that you select **Yes** when prompted if you do not already have a database installed.

### Important

If one of the prerequisite items being installed is Microsoft .NET Framework 4.7.1, you may receive a message that the installation of .NET Framework 4.7.1 failed, with a prompt to continue.

\* We recommend that you select **Yes** to continue with the installation; after the other components are installed, you are prompted to reboot.

\* If you select **No**, you should manually reboot at this point (even though there is no prompt to do so), and restart the installer as an Administrator. If you do not reboot before restarting the installer as an administrator, the .NET installation is not recognized, and you must start the installation from the beginning.

Once all the prerequisite items are installed, the InstallShield Welcome screen for Data Guru and Demand Guru displays.

5. Click **Next** to display the License Agreement, and indicate your acceptance of the license terms.
6. Click **Next**.
7. Review the statement describing information Coupa collects about how the applications are used and how to disable this feature if desired, and click **Next**.
8. When prompted to choose a destination location for the installed files, accept the default location, or click **Change** to choose an alternative location. However, you should only install Data Guru on your C: drive.
9. Click **Next** to display the Ready to Install... screen, and then click **Install**.

10. At this point, if a User Account Control screen again prompts you for permission to make changes to your computer, click **Yes**.

Otherwise, the install begins. A progress bar indicates the status and, during this time, the R packages are also installed into C:\Program Files\Coupa\DataGuru\win-library\3.3.

11. When the installation has completed, indicate whether you want to see the Windows Installer log, and click **Finish** to exit the InstallShield Wizard.

The application is now installed.

## Installation Troubleshooting

### Data Guru 64-bit mode cannot use 32-bit drivers

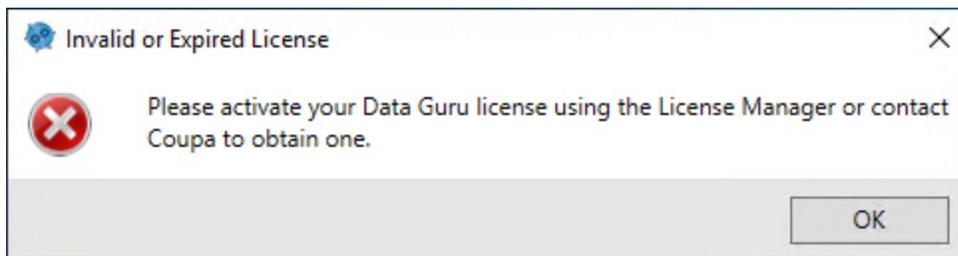
**This includes 32-bit Microsoft Office and 32-bit Access drivers that are installed after 64-bit Microsoft Office is installed.**

Data Guru runs as a **x64** application and cannot use the **x86** (32-bit) version of the Access database driver. Because Data Guru is not able to use the Access database, it displays a warning that the x64 Access driver cannot be found.

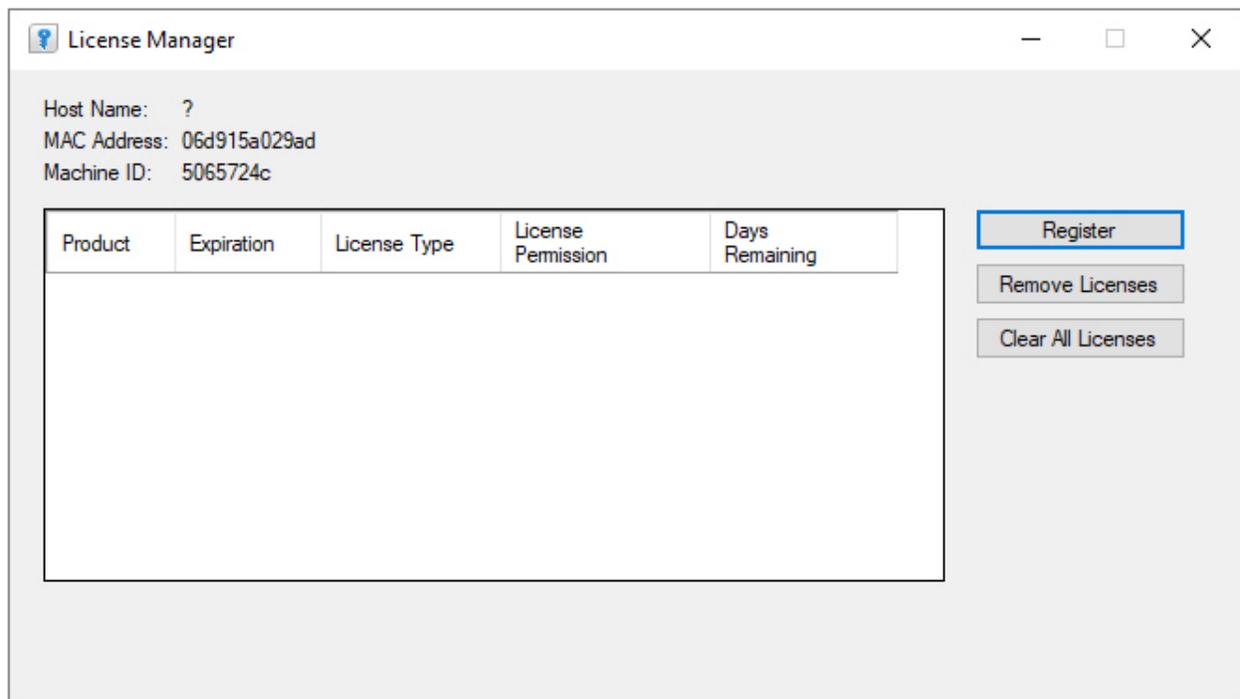
A similar warning is issued by Data Guru for 32-bit ODBC drivers.

### Invalid or Expired License Message on Startup

When starting Data Guru, the following message is displayed if a valid license is not found or if an expired license is found:



Should this occur, click **OK** to open the License Manager.



On the License Manager screen, click the **Register** button and supply a valid license file.