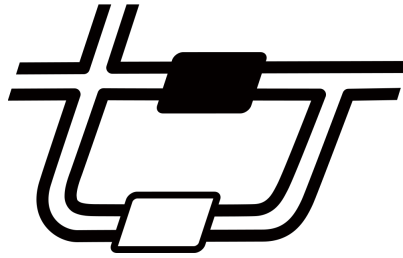


Tai-Ji RealDB 3.1 User Manual



Hangzhou Tai-Ji Control Software Co., Ltd. Tai-Ji Control

Product Name: Tai-Ji RealDB

Version: 3.1

Release Date: April 2025

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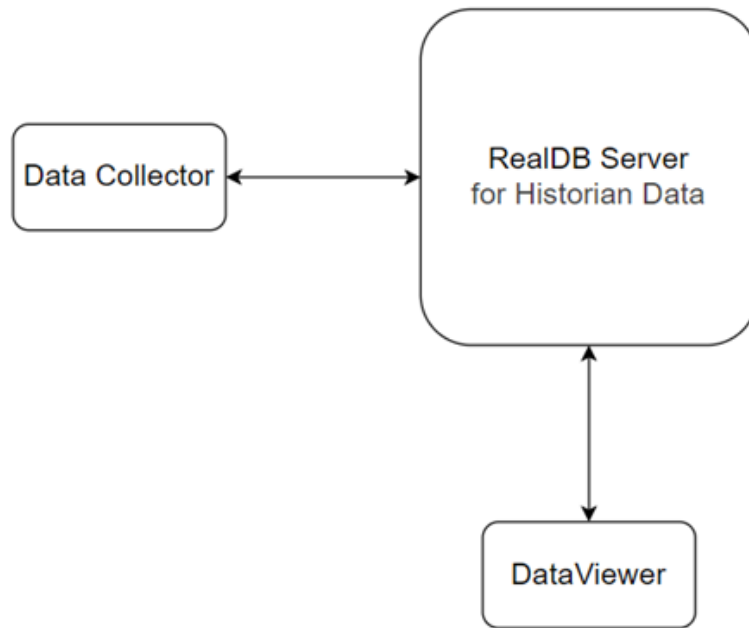
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1. Introduction

Tai-Ji RealDB is a compact, high-performance, general-purpose real-time database service component, designed to solve the problem of real-time data storage in industrial field implementation. Currently, RealDB supports **50,000 points** of real-time data storage, high-speed data access, and distributed operation, providing convenience for field commissioning and customized development.

The database adopts a **client-server (CS) architecture**, where the server handles data storage and compression tasks, while the client provides useful functions such as data collection, trend display, and export.

As shown in the diagram below:



2. Installation

2.1 Obtain the Installation Package

1. Obtain the database installation package (e.g., [RealDB3dot1.zip](#)).
2. Extract the package to a [TaijiControl](#) folder on your computer.
3. After extraction, the folder should contain:
 - **RealDB server programs** ([TaiJi RealGoDB Starter](#), [RealGoShell](#)).
 - **Client program** ([DataViewer](#)) for data collection, trend viewing, and export tools.

Note: The server folder will also be used to store data files. It is recommended to reserve sufficient disk space.

2.2 Obtain Dongle Authorization

Get the dongle authorization from **Hangzhou Tai-Ji Control Software Co., Ltd. (Tai-Ji Control)**.

2.3 Install Dongle Driver

1. Locate [HASPUserSetup.exe](#) in the [TaijiControl\Tools](#) folder.
2. Double-click to run it and follow the instructions to complete the installation.

2.4 Dongle Verification

1. Find [HASPChecker.zip](#) in the [TaijiControl\Tools](#) folder.
2. Extract it and run [HASPChecker.exe](#).
3. Verify if the dongle is correctly installed and authorized.

2.5 Dongle Authorization Update

1. Locate [RUS_TJC.zip](#) in the [TaijiControl\Tools](#) folder.

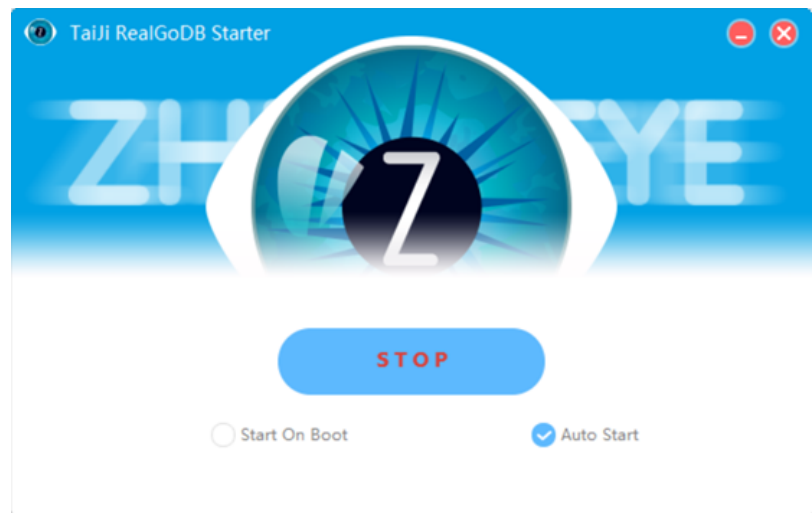
- 2. Extract it and follow the instructions to update authorization.
- 3. **Note:** Authorization updates require assistance from Tai-Ji Control technical support.

3. Starting the Database Service

- 1. Open `TaijiControl\RealGoDB3\RealGoDBGui.exe`.

TaijiControl5.2.40 > RealGo-20250426 > RealGoDB3 >					在 F
名称	修改日期	类型	大小		
RealGoArrayBuffer.pdb	2024/4/24 16:41	Program Debug ...	166 KB		
RealGoDB.zlic	2024/5/30 10:25	ZLIC 文件	1 KB		
RealGoDBDriver.dll	2024/11/24 11:54	应用程序扩展	27 KB		
RealGoDBDriver.pdb	2024/11/24 11:54	Program Debug ...	112 KB		
RealGoDBGui.exe	2025/4/26 9:12	应用程序	1,311 KB		
RealGoDll.dll	2025/3/29 9:05	应用程序扩展	118 KB		
RealGoDll.pdb	2025/3/29 9:05	Program Debug ...	382 KB		
RealGoService.ini	2025/3/29 9:02	配置设置	1 KB		
RealGoServiceInstall.bat	2025/3/29 9:17	Windows 批处理...	1 KB		
RealGoShell.application	2025/3/29 9:05	Application Man...	2 KB		
RealGoShell.exe	2025/3/29 9:05	应用程序	60 KB		
RealGoShell.exe.config	2024/3/14 18:19	Configuration 源...	1 KB		

- 2. After starting the server program, the following interface will appear:



- 3. After clicking the minimize button, the database core (Shell) will minimize to the system tray. No further operations are generally needed during runtime.

Function Overview

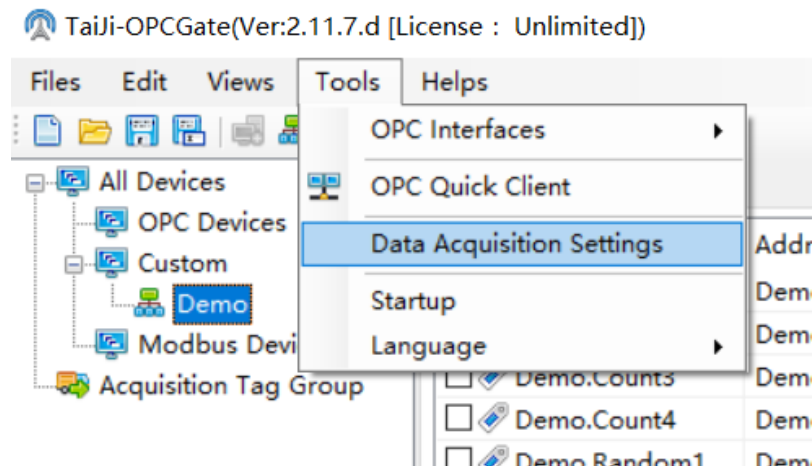
- **START/STOP Button:** Control the start and stop of the RealDB service.
- **Auto Start:** Automatically start RealDB service when launching the starter GUI.
- **Start On Boot:** Enable auto-start on system boot.

4. Data Collection

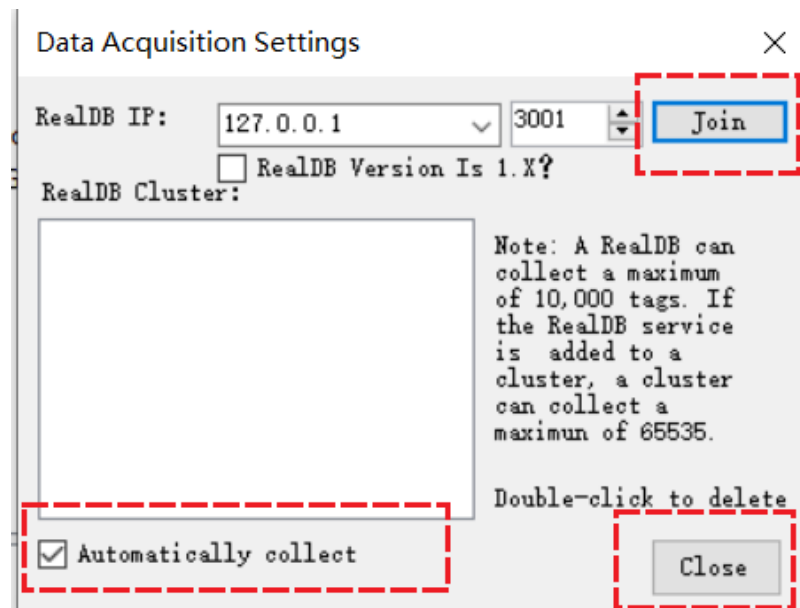
Use **Tai-Ji OPCGate** for data collection.

4.1 Configure the Connection Between OPCGate and RealDB3 Service

1. Click **Tools** -> **Tag Collection Settings** in the menu bar.



2. In the dialog box:
 - Click **Join Cluster**.
 - Check **Automatically Collect from RealDB When Program Starts**.
 - Click **Close**.

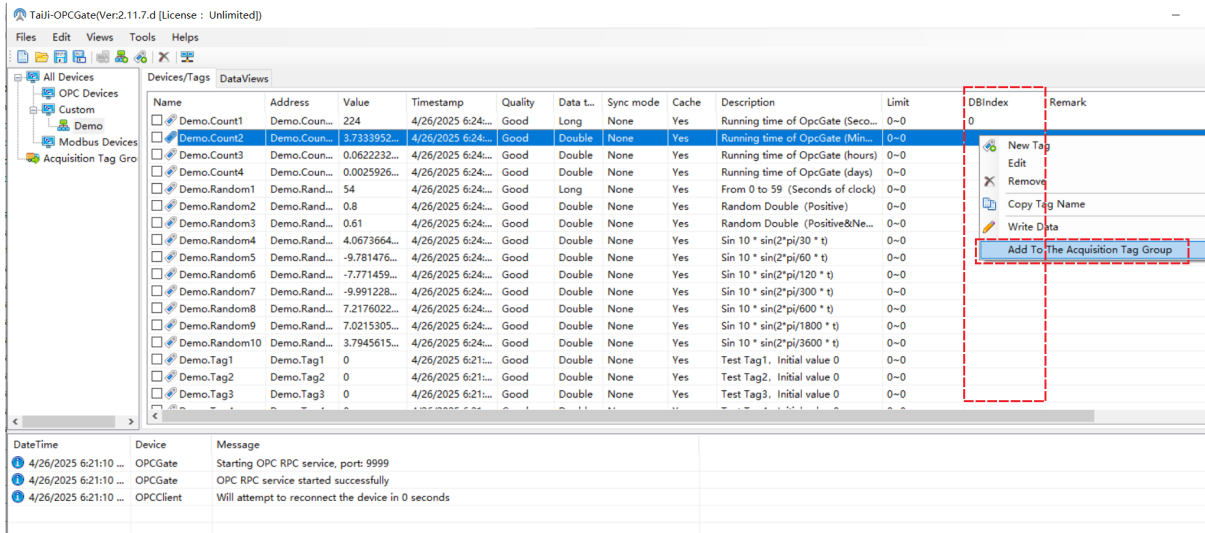


4.2 Data Collection

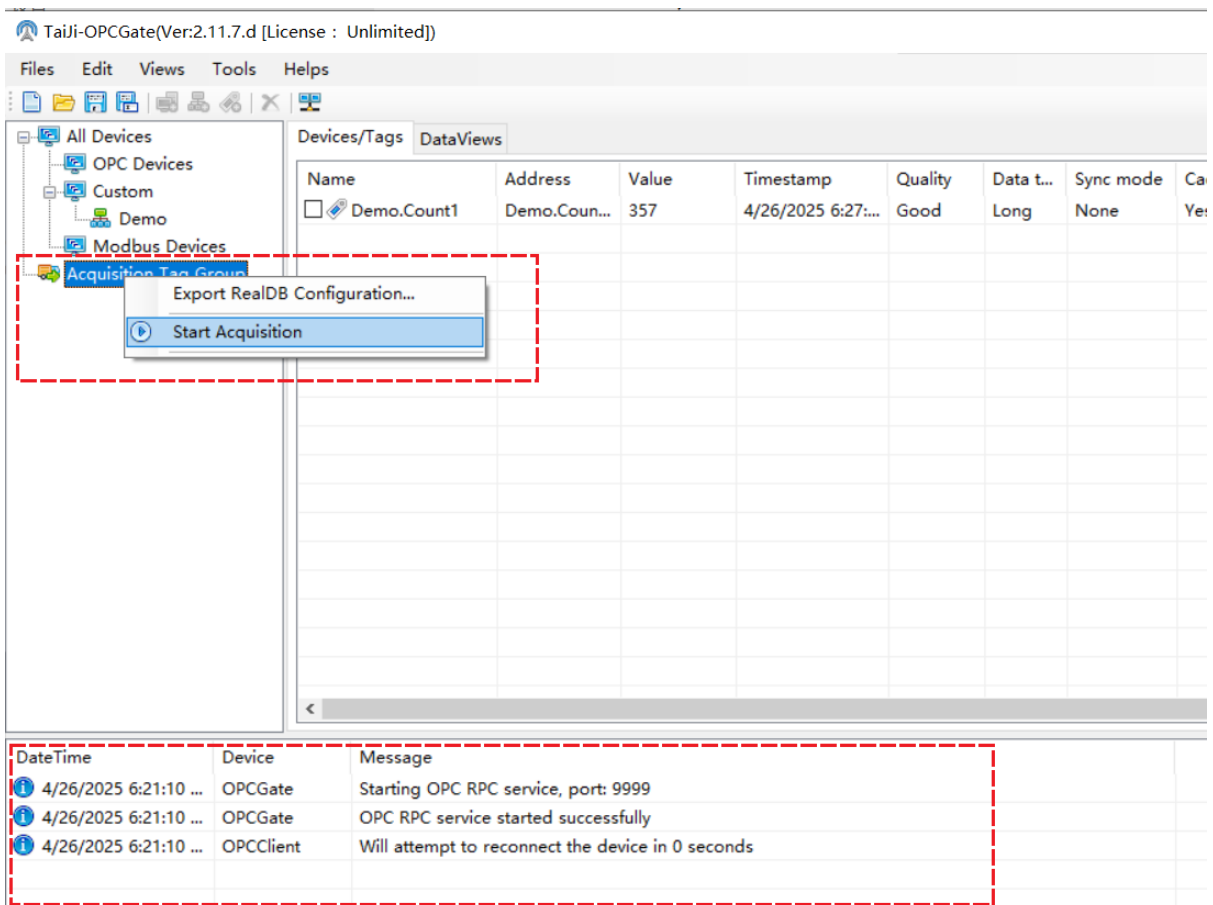
1. Locate the tag you want to collect, right-click, and select **Add to Collection Tag Set**.
2. OPCGate will automatically create a RealDB address for the tag (you can also manually modify or import via a CSV file).

Note: RealDB address represents the storage location in the database. Please assign addresses reasonably to avoid duplication.

3. Left-click **Collection Tag Set** to view all tags to be collected.



4. Right-click **Collection Tag Set** and select **Start Collection**.



5. Check the log to confirm successful collection. If successful, the data is stored in the database.

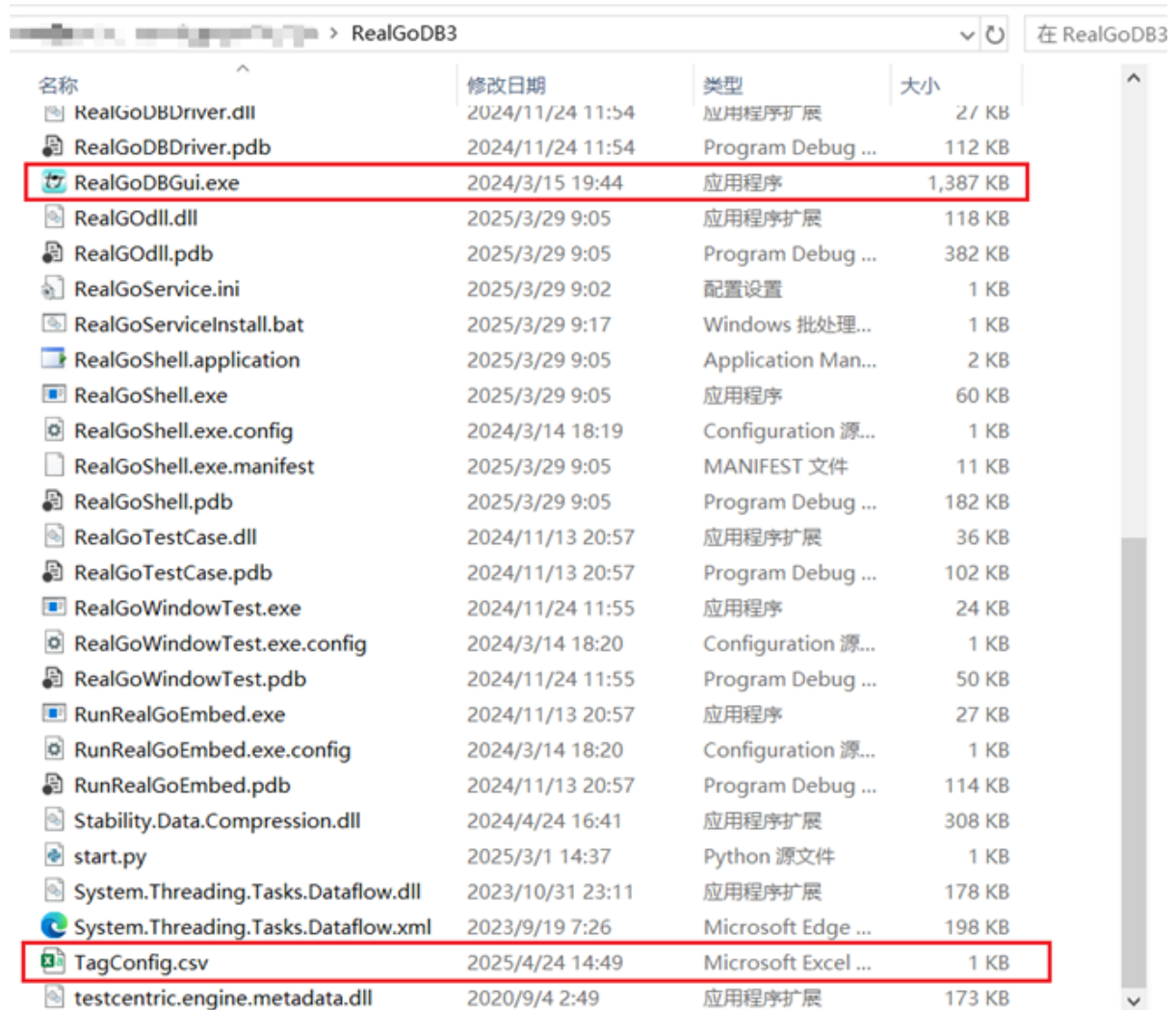
Tip: Remember to save the OPCGate project file promptly.

4.3 Export Configuration

1. Right-click **Collection Tag Set** and select **Export RealDB Configuration**.
2. Set the export path to the directory where **RealGoDBGui.exe** is located, and keep the filename as **TagConfig.csv**.

Note: The export path must be the same as the database server directory, and the filename must be **TagConfig.csv**. **You must export again each time you modify the database configuration.**

3. After exporting, verify the database server folder as shown below:



名称	修改日期	类型	大小
RealGoDBDriver.dll	2024/11/24 11:54	应用程序扩展	2 / KB
RealGoDBDriver.pdb	2024/11/24 11:54	Program Debug ...	112 KB
RealGoDBGui.exe	2024/3/15 19:44	应用程序	1,387 KB
RealGoDll.dll	2025/3/29 9:05	应用程序扩展	118 KB
RealGoDll.pdb	2025/3/29 9:05	Program Debug ...	382 KB
RealGoService.ini	2025/3/29 9:02	配置设置	1 KB
RealGoServiceInstall.bat	2025/3/29 9:17	Windows 批处理...	1 KB
RealGoShell.application	2025/3/29 9:05	Application Man...	2 KB
RealGoShell.exe	2025/3/29 9:05	应用程序	60 KB
RealGoShell.exe.config	2024/3/14 18:19	Configuration 源...	1 KB
RealGoShell.exe.manifest	2025/3/29 9:05	MANIFEST 文件	11 KB
RealGoShell.pdb	2025/3/29 9:05	Program Debug ...	182 KB
RealGoTestCase.dll	2024/11/13 20:57	应用程序扩展	36 KB
RealGoTestCase.pdb	2024/11/13 20:57	Program Debug ...	102 KB
RealGoWindowTest.exe	2024/11/24 11:55	应用程序	24 KB
RealGoWindowTest.exe.config	2024/3/14 18:20	Configuration 源...	1 KB
RealGoWindowTest.pdb	2024/11/24 11:55	Program Debug ...	50 KB
RunRealGoEmbed.exe	2024/11/13 20:57	应用程序	27 KB
RunRealGoEmbed.exe.config	2024/3/14 18:20	Configuration 源...	1 KB
RunRealGoEmbed.pdb	2024/11/13 20:57	Program Debug ...	114 KB
Stability.Data.Compression.dll	2024/4/24 16:41	应用程序扩展	308 KB
start.py	2025/3/1 14:37	Python 源文件	1 KB
System.Threading.Tasks.Dataflow.dll	2023/10/31 23:11	应用程序扩展	178 KB
System.Threading.Tasks.Dataflow.xml	2023/9/19 7:26	Microsoft Edge ...	198 KB
TagConfig.csv	2025/4/24 14:49	Microsoft Excel ...	1 KB
testcentric.engine.metadata.dll	2020/9/4 2:49	应用程序扩展	173 KB

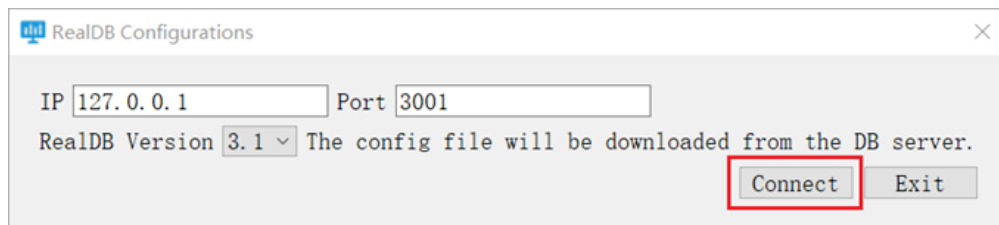
5. DataViewer Client

5.1 Launch the Client

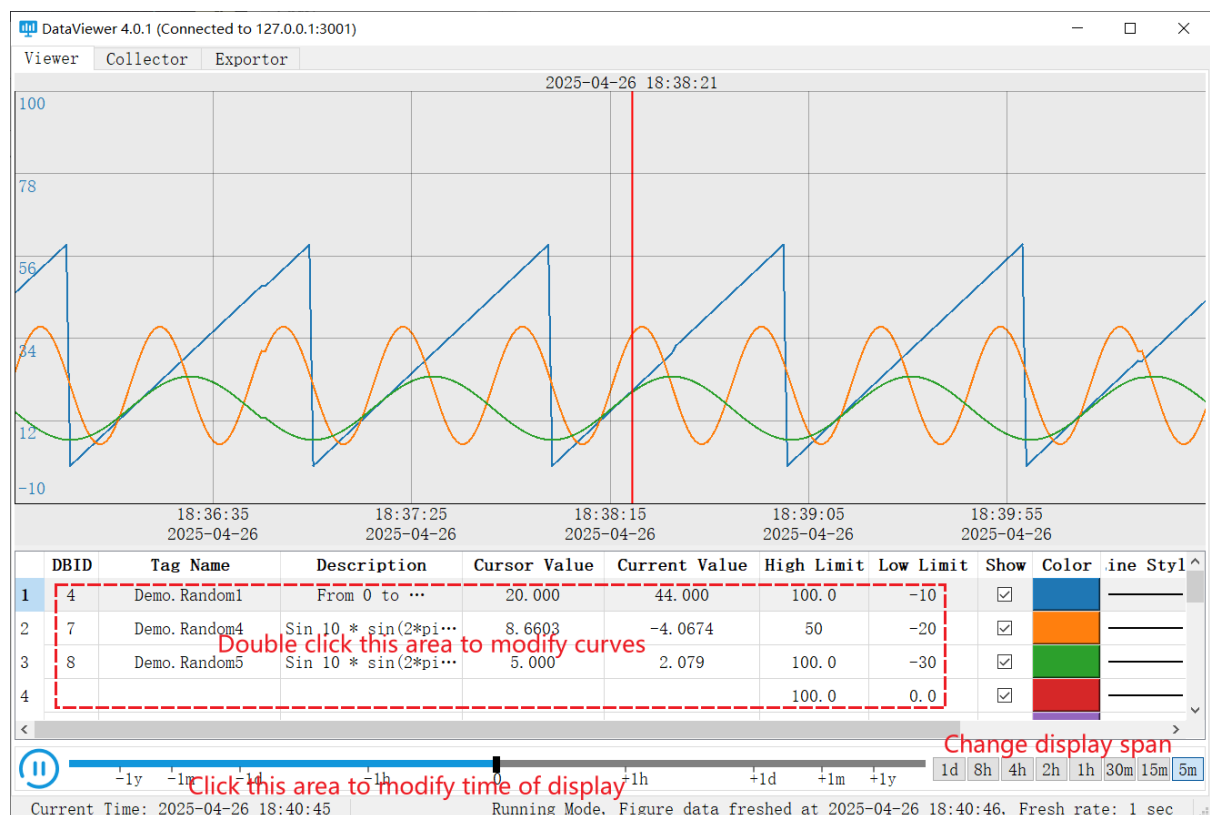
1. Locate the **DataViewer.exe** client program and double-click to open.

DataViewer4_release >		
名称	修改日期	类型
gui	2025/2/11 18:32	文件夹
runtime	2022/2/5 16:51	文件夹
site-packages	2025/2/10 22:16	文件夹
DataViewer.exe	2024/10/30 10:40	应用程序
DataViewer.int	2025/2/11 15:36	INT 文件
releaseNote.txt	2025/2/11 18:29	文本文档

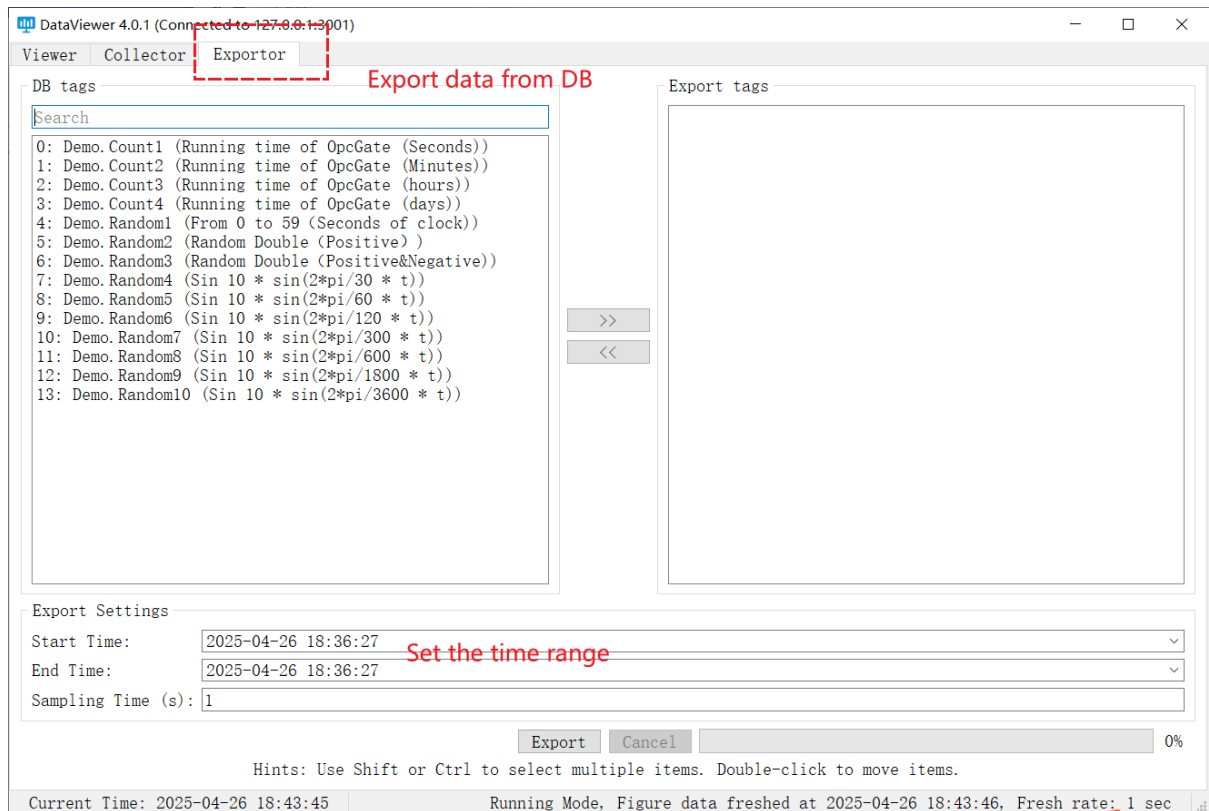
- After opening, click **Connect**.
- If using an older database version, select the corresponding version and configuration file.



- Enter the trend viewing interface, as shown below:



Tip: DataViewer allows multiple instances for browsing different data trends and can be closed at any time.



Tip: Users can export data under the **Export** tab.

6. Troubleshooting

6.1 How to Confirm if the Database Service is Running

1. Open Windows Task Manager.
2. Under the **Details** tab, check for the presence of the **RealGoShell.exe** process.

