Canary Historian Service

Information on how to set up a TagProvider connection with Canary Historian

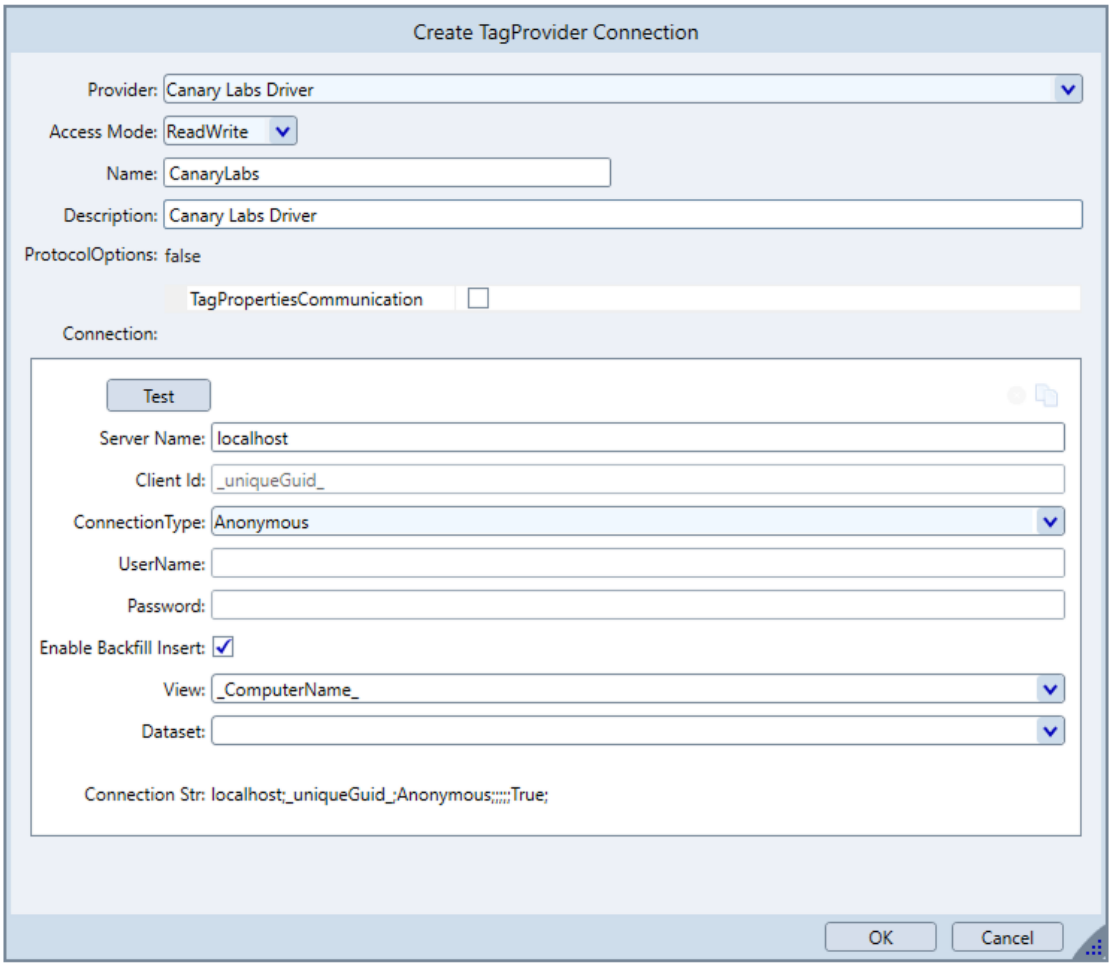
Reference Modules UNS UI Services Canary

The Canary Labs TagProvider integrates and visualizes real-time data from Canary Labs without manual tag creation. Configure a connection to access data directly, enabling exploration and analysis within the Unified Namespace. This TagProvider enhances data accessibility, providing a streamlined method for incorporating Canary Labs data into applications.

Configuration
Connection Parameters

Configuration

To set up a new TagProvider connection navigate to **Unified Namespace/TagProvider Connections** and press the add button to open the New TagProvider Connection dialog. You can also create your TagProvider Connection directly from the AssetTree. To do this, navigate to **Unified Namespace/Assets Tree** and press  to open the New TagProvider Connection dialog. In the configuration dialog, select the **Canary Labs Driver** on the Provider field and insert the required connection parameters. After that, press the Ok button to finish the provider configuration. Creating the connection adds no folder to the Asset Tree. To use its data with Asset(), open **Unified Namespace / Assets Tree**, select a folder (create one first if needed) and click **Insert data from TagProvider** on the toolbar: the folder linked to the TagProvider is created inside the selected folder. A linked folder cannot sit at the root of the Asset Tree.



Connection Parameters

Field	Description
Provider	Specifies the system the TagProvider will interface with. In this case, it interfaces with the Canary Labs Communication Driver.
Access Mode	Determines permissions for interacting with tags. **Read** allows data reading. **Write** permits data writing. **ReadWrite** enables both reading and writing.
Name	User-defined name for the TagProvider instance. Identifies the specific configuration in the system.
Description	Explains the TagProvider's purpose or the systems it interfaces with. Provides context for its usage.
ProtocolOptions	Defines specific communication settings for the connection to the device.
TagPropertiesCommunication	Determines whether to include tag properties in communication.
Connection	Displays the connection string used to connect to the Canary Labs server. Defines connection settings for the Canary Labs server, including server name, client ID, connection type, username, password, view, and dataset. Make sure to test the connection with the Test button once you add all the information.

Field	Description
Server Name	Specifies the server name where the Canary Labs Communication Driver is hosted.
Client Id	Unique identifier for the client connecting to the Canary Labs server.
Connection Type	Defines the type of authentication used for the connection. Options include Anonymous, Windows, and Username. **Anonymous:** Allows connection without any specific authentication. **Windows:** Utilizes the credentials of the Windows user. **Username:** Requires a specific username (and potentially a password) for connection.
UserName	Specifies the username for authentication if the ConnectionType is set to Username or Windows.
Password	Specifies the password for authentication if the ConnectionType is set to Username or Windows.
Enable Backfill Insert	Enables the backfill insert feature, which allows for historical data to be inserted into the database. Toggle this option if you wish to retrieve historical data from CanaryLabs, filling any gaps in the data timeline.
View	Specifies the view name within the Canary Labs system to access the data.
Dataset	Defines the dataset within the Canary Labs system to retrieve data from.
Test	Verifies the connection settings to ensure successful communication with the specified server.
Connection Str	Displays the full connection string used to connect to the Canary Labs server. Provides a summary of all connection parameters.

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