DataGrid Asset DataSource Example

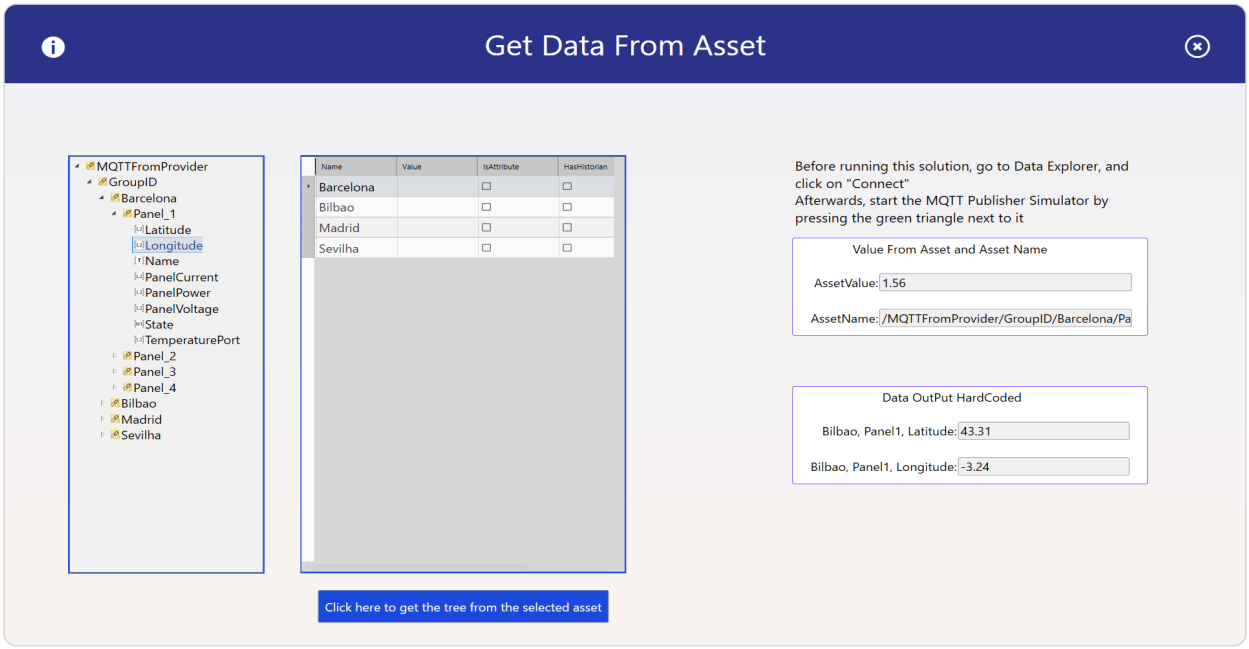
Bind DataGrid to asset data sources.

Download the solution DataGrid Asset DataSource Example.dbsln.

This example demonstrates how to use a MQTT Broker as a connector between a TagProvider and the solution.

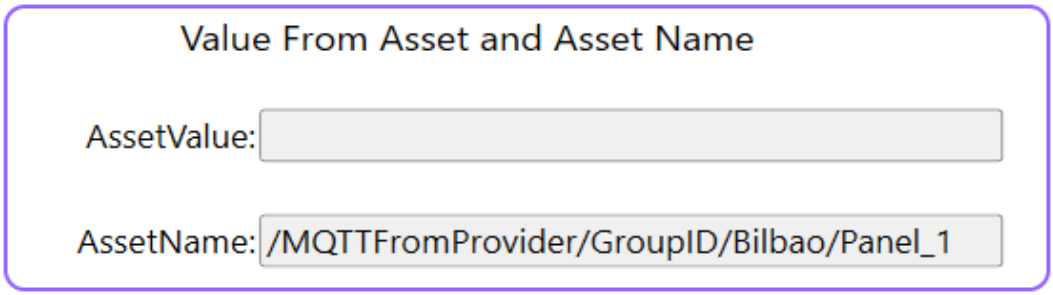
Summary

This example demonstrates how to use a MQTT Broker as a connector between a TagProvider and the solution.



Technical Information

The MQTT Broker in this solution acts as a communicator between a TagProvider (in this example the MQTT Publisher Simulator) and the solution, through a folder of the Asset Tree linked to the TagProvider. The Tags within this linked folder can be accessed by the system and displayed to the user via the path used in the text boxes shown below.



MQTT Publisher

The MQTT Publisher Simulator is an integrated device on the platform that act as a TagProvider.
To start the MQTT Publisher, go to Data Explorer > MQTT Tools and click on the green arrow next to MQTT Publisher Simulator.
After starting the publisher, click on the "Connect" button to test the Broker connection to the MQTT Publisher.

Users can also dynamically access Tags through user input by utilizing the `Client.Context.AssetName` client tag in the SelectedAsset configuration within the Asset Tree component. This client tag stores the value of the selected asset, which can be accessed and used via `Asset (Client.Context.AssetName)`.

The information in the linked folder can be moved or copied to other parts of the solution for easier manipulation. For example, to associate a DataTable called `DT` with the Tags from the TagProvider, a script class named `ChildrenHandler` (accessible under **Script / Classes**) was created. Within this class, a function called `GetAssetTable` is defined. This function is invoked in the code-behind section of the main display to link the `DT` DataTable with the Tags in the linked folder.

In this section...
