AB Rockwell ControlLogix Service

Information on how to set up a TagProvider connection with AB Rockwell ControlLogix.

Reference **Modules** **UNS** **UI** **Services** ControlLogix

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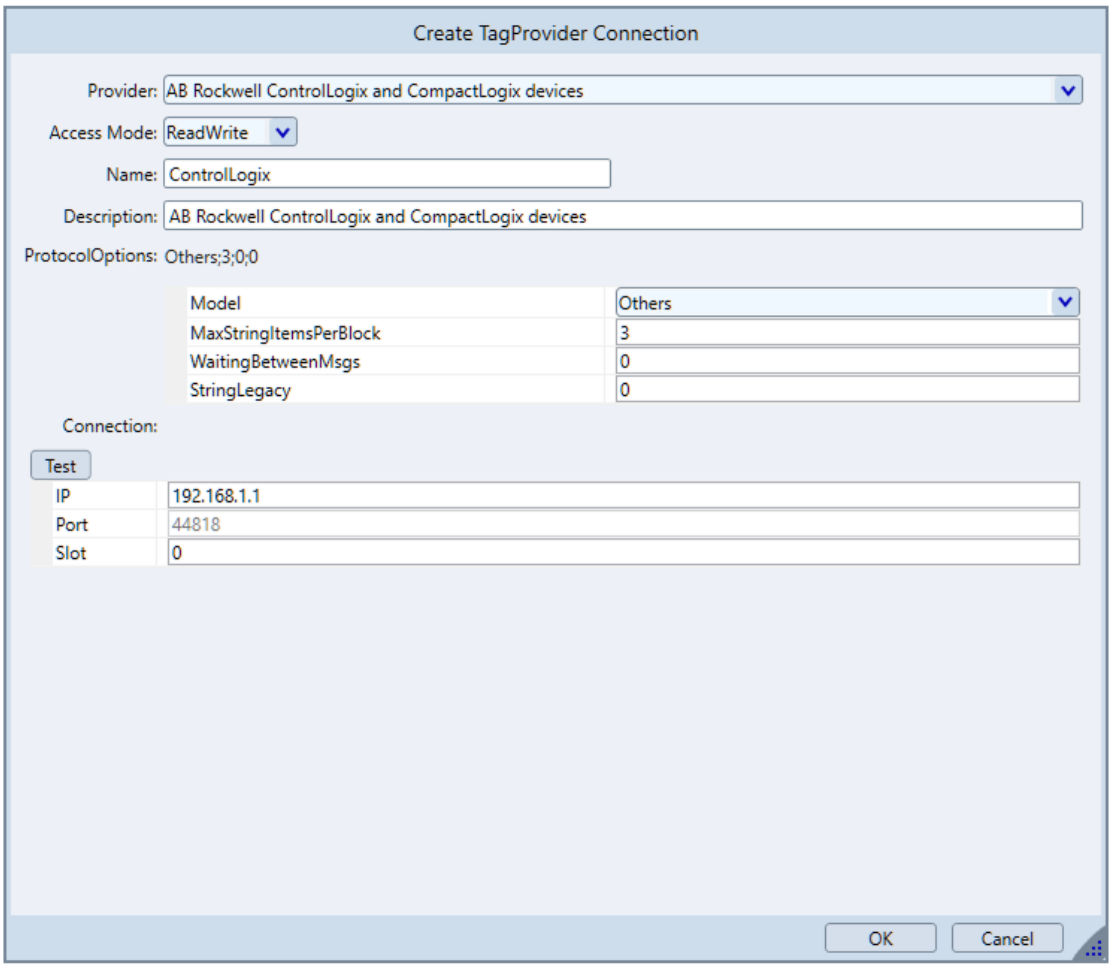
The ControlLogix Service interfaces with AB Rockwell ControlLogix and CompactLogix devices. Configure this connection to integrate real-time data into applications, eliminating the need for manual tag creation. This setup provides a way to access and utilize data from ControlLogix or CompactLogix series in various 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 **AB Rockwell ControlLogix/CompactLogix devices** on the Provider field and insert the required connection parameters, such as the device model, the IP address, port number, and slot number. Test the connection by pressing the "Test" button. 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.

> Ensure all details are accurate for a seamless connection. If unsure about specific settings, refer to your device's documentation or seek expert advice.



Connection Parameters

Field	Description
Provider	Specifies the type of device or system with which the TagProvider will interface. In this case, it is AB Rockwell ControlLogix and CompactLogix devices.
Access Mode	Determines the permissions for interacting with tags: Read allows data reading, Write permits data writing, and ReadWrite enables both reading and writing.
Name	User-defined name for the TagProvider instance, used to identify the specific configuration in the system.
Description	A brief explanation of the TagProvider's purpose or the systems it interfaces with, providing context for its usage.
ProtocolOptions	A set of parameters that define specific communication settings for the connection to the device.

Field	Description
Model	Selects the specific model of the ControlLogix or CompactLogix device. Options include Others (generic settings), 1756-L8X (for the 1756-L8X series), and Micro850 (for Micro850 series).
MaxStringItemsPerBlock	Defines the maximum number of string items that can be included in a single block of data.
WaitingBetweenMsgs	Sets the delay time between consecutive messages sent to the device, helping manage communication load.
StringLegacy	Configures compatibility with legacy string formats used in older systems.

Connection	Defines the network settings for connecting to the device, including IP address, port, and slot number.

Field	Description
Test	Button to verify the connection settings, ensuring that the system can successfully communicate with the specified device.
IP	The IP address of the ControlLogix or CompactLogix device to establish a network connection.
Port	The network port number used for communication with the device.
Slot	Specifies the slot number of the processor within the ControlLogix or CompactLogix chassis.

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