AB Rockwell ControlLogix Importer

Explanation on to import tags from AB Rockwell ControlLogix.

Reference **Solution** **Designer** **Settings and Tools** **Import Tags** ControlLogix

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The **ControlLogix Tag Importer** wizard integrates Rockwell ControlLogix PLC data into FrameworX solutions. It automatically maps tags from either an **L5K project file** or directly from **PLC memory**, including full support for data types, User-Defined Types (UDTs), and Add-On Instructions (AOIs).

The wizard can connect directly to a PLC using **Station IP, Port, and Slot** parameters, or it can load tags from an existing **L5K file**. Once configured, the tool generates the necessary channels and tags and supports ongoing synchronization through the **Sync Device Node** feature.

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ControlLogix Import

Requirements

- For a file import: an .L5K export file from RSLogix 5000 / Studio 5000. The importer does not read .L5X files; an .L5X file imports no tags.
- Controller tags exported
- Proper file encoding (UTF-8)

Tag Mapping

ControlLogix	Platform Tag	Notes
BOOL	Digital	Direct map
INT	Integer	16-bit
DINT	Integer	32-bit
REAL	Double	Float point
STRING	Text	String type
UDT	Template	Creates template

Import Features

Feature	Description
Preserve Structure	Maintains UDT hierarchy
Create Templates	Converts UDTs
Map Arrays	Creates array tags
Import Comments	Uses as descriptions

Instructions

Wizard Startup

On the Solution Designer, go to Solution Import Tags and select "Import Rockwell ControlLogix L5K configuration." Click the "Execute" button.

Initial Configuration

In the ControlLogix configuration popup, enter the PLC information:

- **Station IP**: The IP address of your ControlLogix PLC (e.g., 192.168.1.1)

- **Port**: The communication port (default: 44818)
- **Slot**: The physical slot of the PLC's communication module (often 0). Click "Ok".

Sync Device Node

The "Sync Device Node" window will appear. Here, you have two import options:

- From a .L5K file: Provide the path of your stored .L5K file.
- From a device: This connects directly to your PLC. It analyzes the PLC's memory, allowing you to import tag configurations without a separate L5K file.

Prefix Option (Optional)

Select "Add NodeName as Prefix" option to automatically add the PLC's name as a prefix to all imported tags. It improves organization, especially in solutions with multiple PLCs.

Refresh

Click "Refresh" to display a preview of available tags.

Import

Finally, press "Ok" to start the import process.

Tutorial

The tutorial in the image below shows how to import tags from ControlLogix by using a .L5K file.

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