

WireTank Serial

User Manual

JUNE 2020

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Overview

WireTank Serial provides seamless integration of 2-way serial communication devices into the Polyscope software. These devices are not limited to those with physical serial ports but rather all devices that install as software serial ports. An installation node is provided to setup all serial parameters and can be used as a terminal, while program nodes allow writing and reading commands.

Box Contents

- 1) USB Stick with URCAP and User Manual
- 2) USB to Serial Adapter

Installation

Installation of USB To Serial Adapter

Plug in the USB to Serial Adapter into any available USB port. This can be done at the Robot Control Cabinet or at the USB port on the teach pendant.

URCap Installation

After inserting the provided WireTank usbstick into the teach pendants USB port, the URCap installation can be done by pressing the “Hamburger” menu at the top right of the Polyscope software. Figure 1 below shows the URCap installation screen. Click the “+” button and navigate to the URCap file, WireTankWireBridgeSerial-2.0.urcap, on the USB stick. A Polyscope restart is required for the URCap installation to complete.

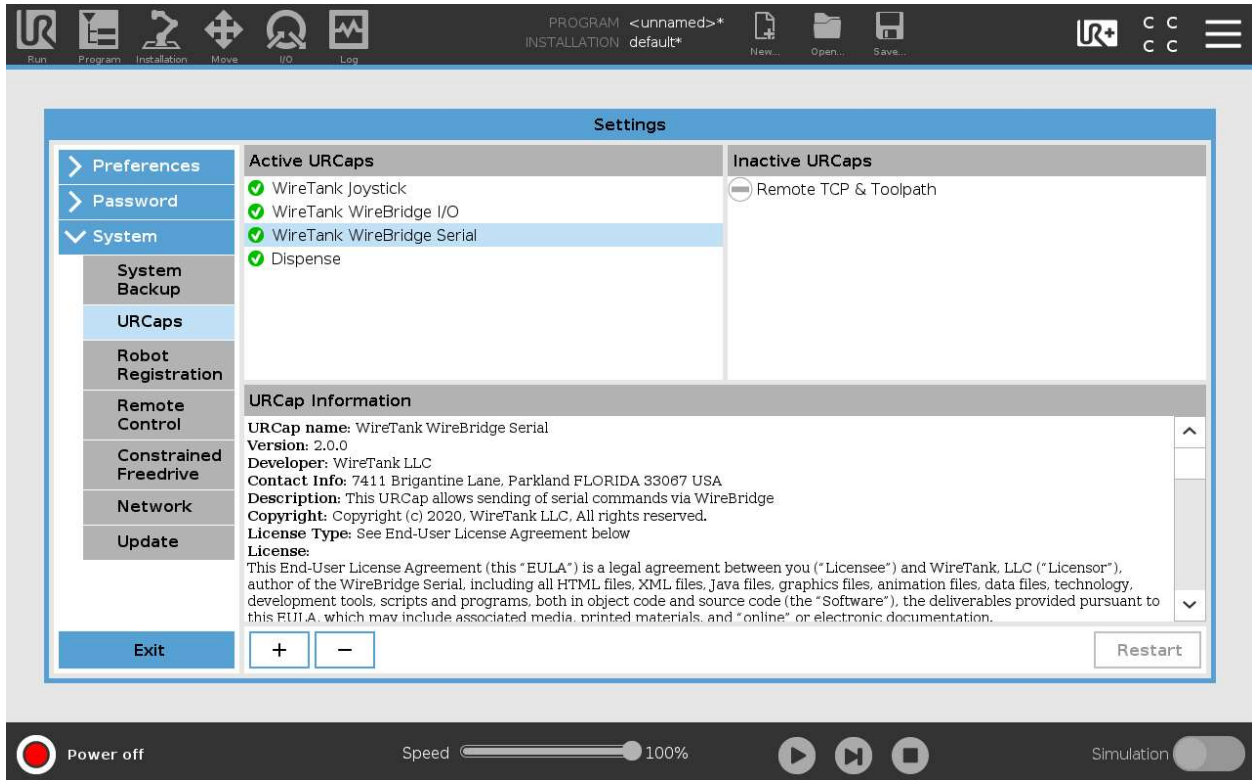


Figure 1 – URCAP Installation

Operation

Installation Node

The installation node, shown in Figure 2, can be used to select the communication port and to configure all serial parameters to match those of the connected serial device. The baud rate and termination characters must be set properly.

The “Write Data” field in combination with the “Write Data” button can be used to write the command to the selected serial port. When a response is expected, the “Query?” checkmark can be used, and the “Read Data” indicator field will show the device response.

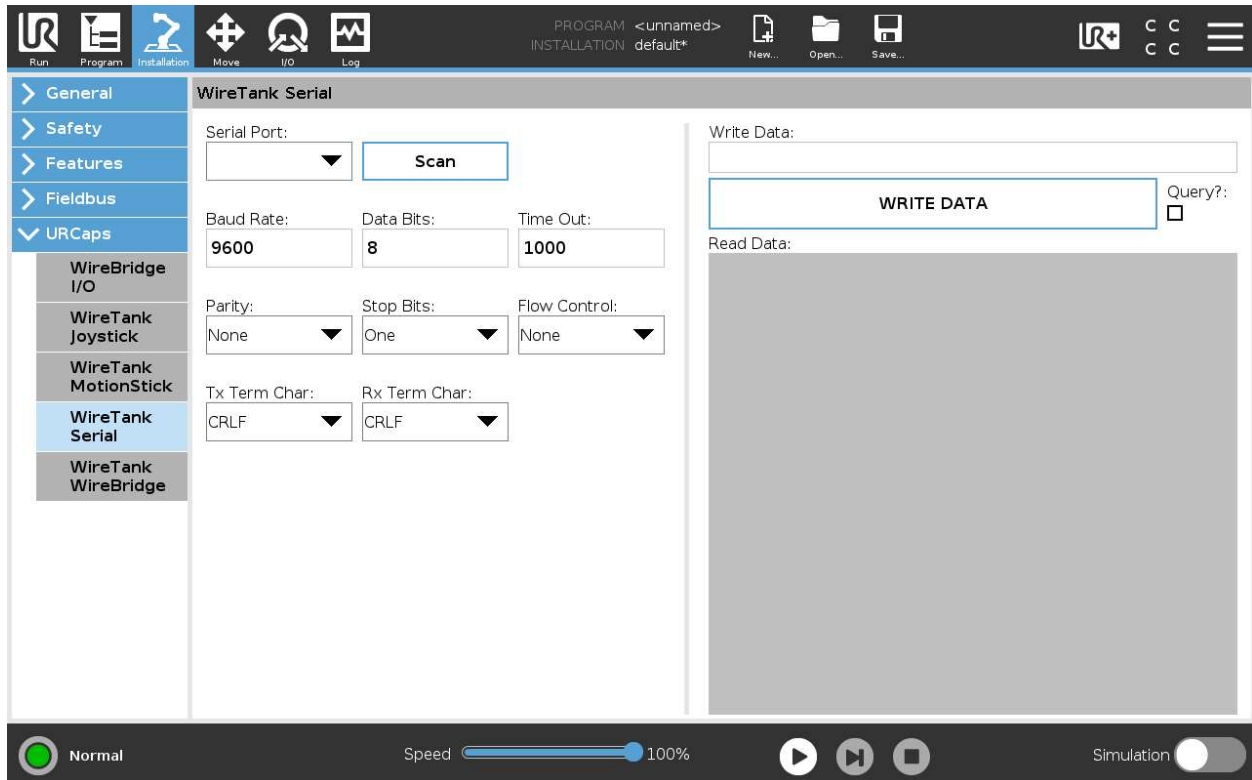


Figure 2 – Installation Node

Program Node

The program node, shown in Figure 3, can be used to send and read commands using the configured settings of the installation node. The “Node Label” field can be used to give the node a meaningful name like the command being sent.

The command can be static, or it can be a variable, allowing commands to be formed using the newly available string functions in Polyscope.

If the “Query?” checkbox is selected, the port will wait for a response up to the specified timeout. The response can then be assigned to existing variable or a new variable can be defined as shown.

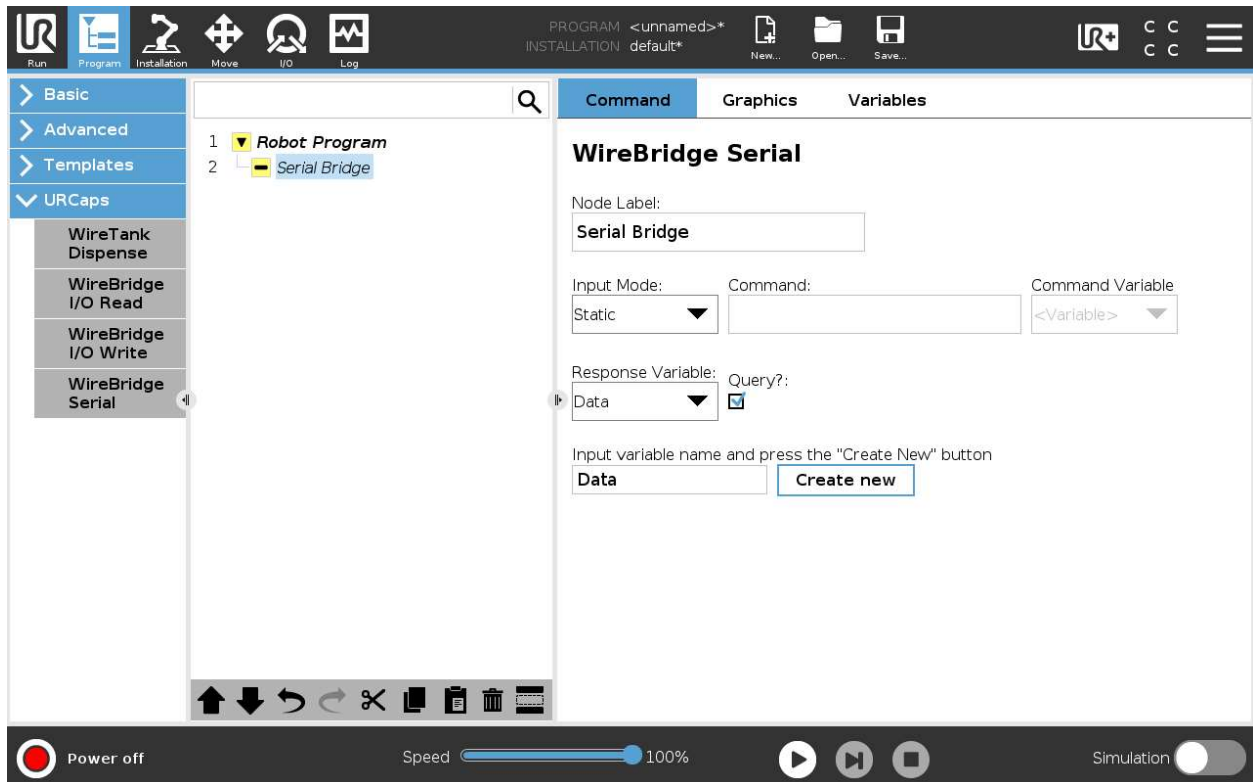


Figure 3 - Program Node