



Technical Note

Using the Allen-Bradley DF1 Driver to Connect to the RSLogix5000 Controller's Serial Port

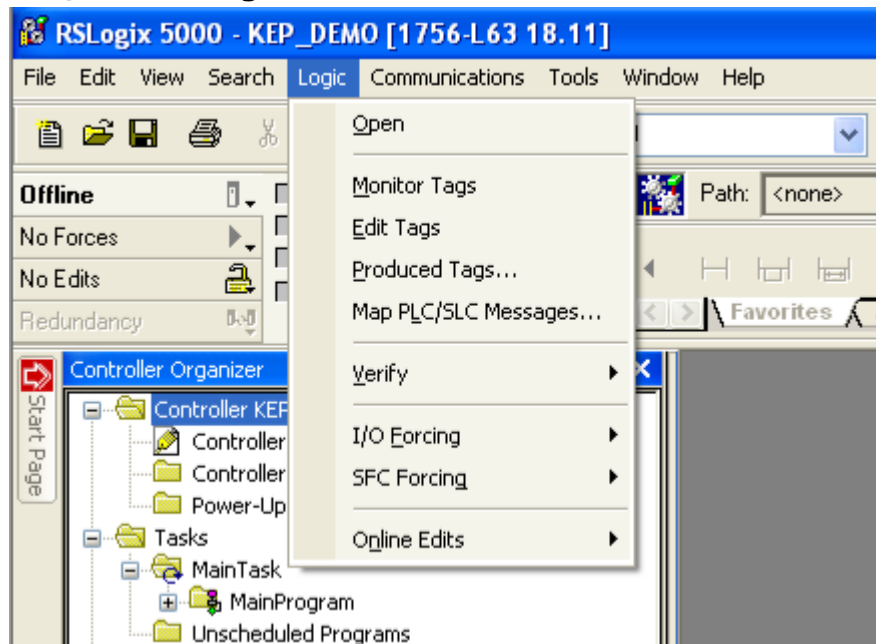
1. Introduction

The Allen-Bradley DF1 Driver for KEPServerEX can be used to connect to the serial port of an RSLogix5000 family controller.

2. Enabling Communications with the RSLogix5000 Controller

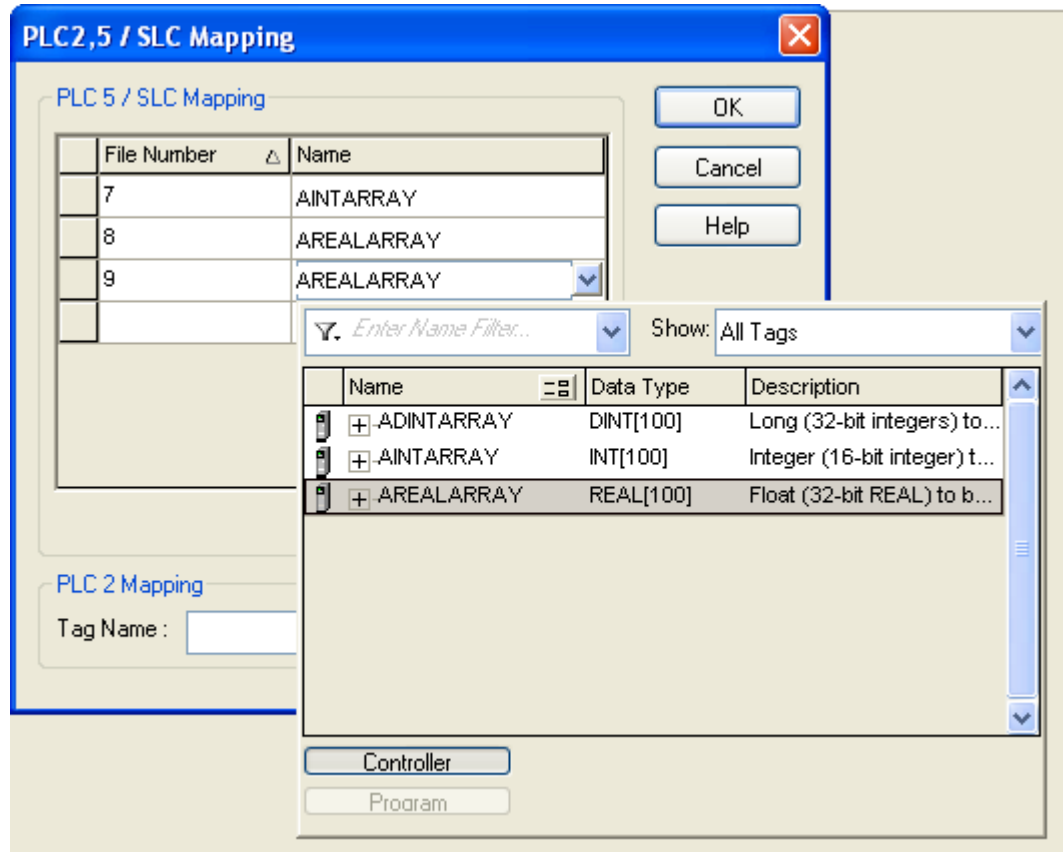
The RSLogix5000 controller tags must be mapped to the PLC/SLC data tables in RSLogix5000. For more information, refer to the instructions below.

1. In the RSLogix5000 controller's development software, click **Logic | Map PLC/SLC Messages**.

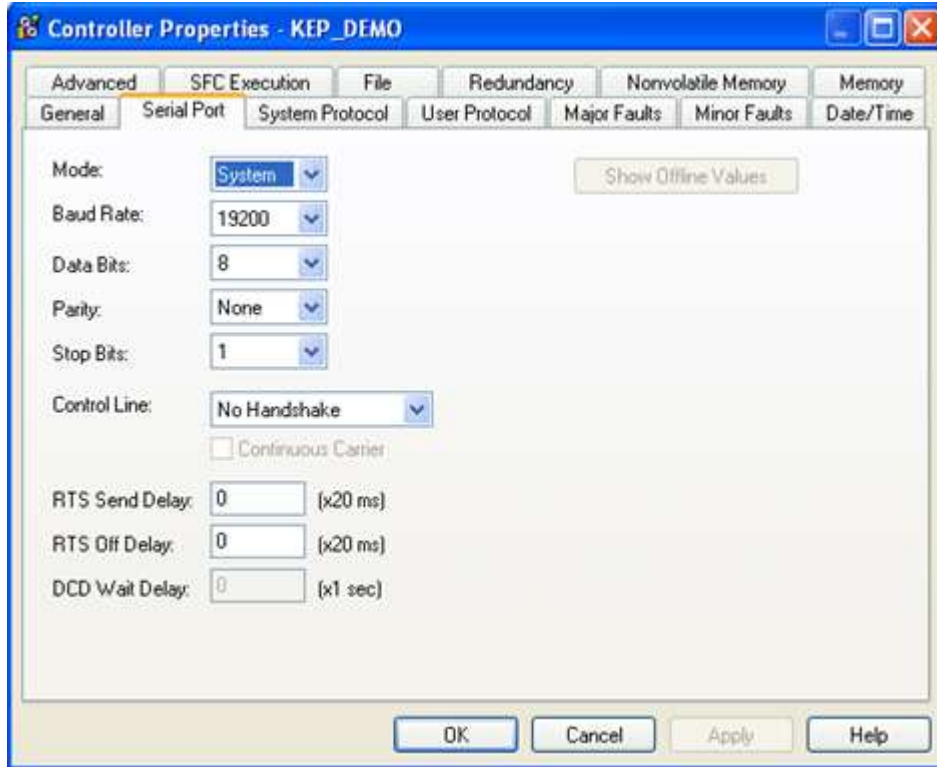


2. In **PLC2,5 / SLC Mapping**, indicate the File Number to be referenced by non-RSLogix5000 controllers with the matching RSLogix5000 controller tags available in the drop-down menu.

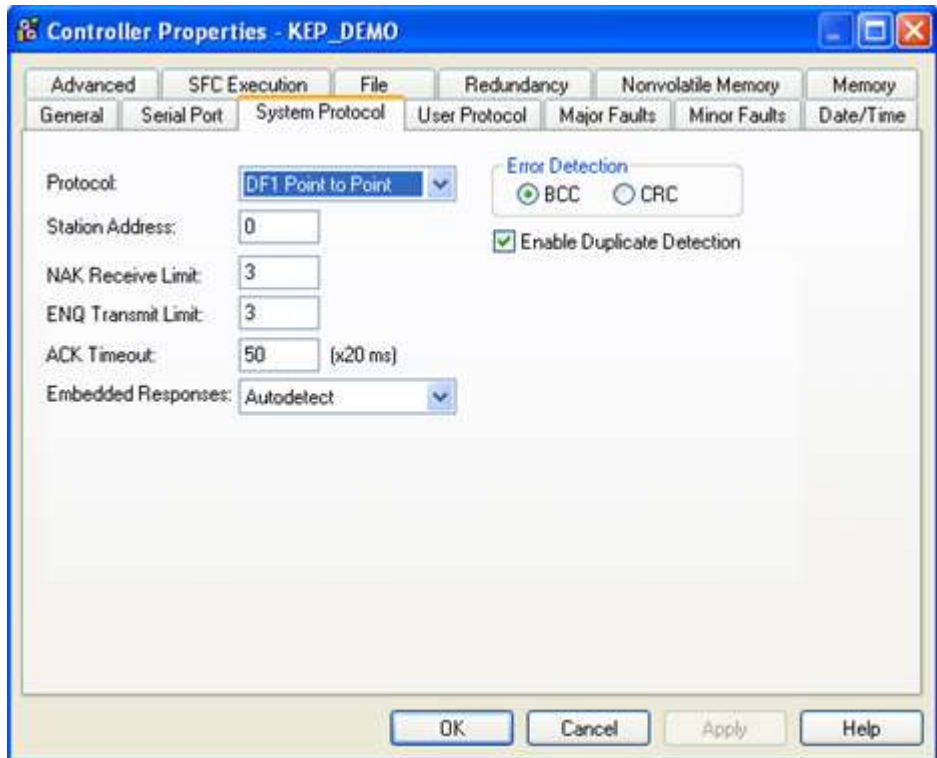
Note: In the example shown below, File Number 7 (or N7:0) is mapped to RSLogix5000 controller tag AINTARRAY so that the N7:0 to N7:99 data table elements will be mapped to the RSLogix5000 controller tags AINTARRAY[0] to AINTARRAY[99].



3. Once finished, click **OK**.
4. Next, ensure that the serial settings in the RSLogix5000 controller match the serial settings in the Allen-Bradley DF1 Driver. In RSLogix5000, these settings are located in **Controller Properties | Serial Port**.

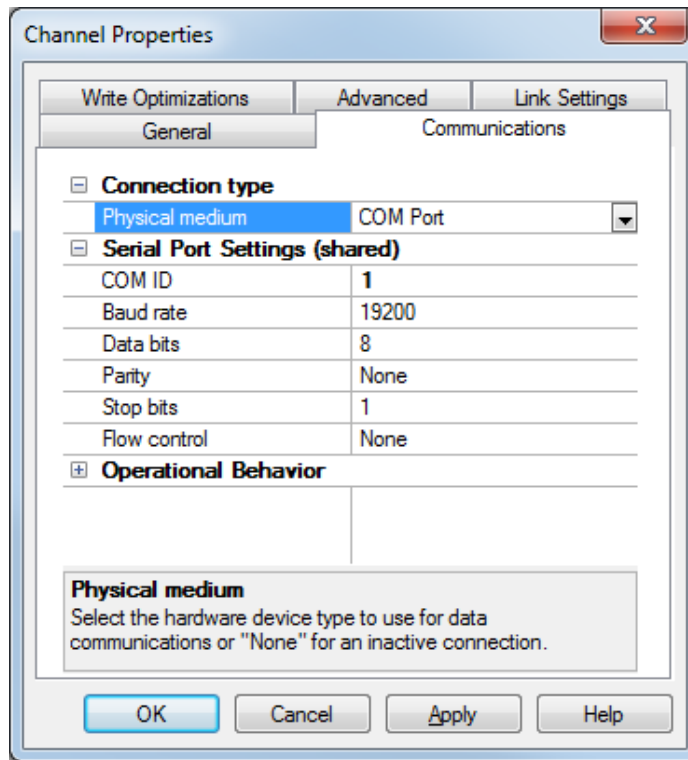


5. On the **System Protocol** tab, verify the **Error Detection** setting.



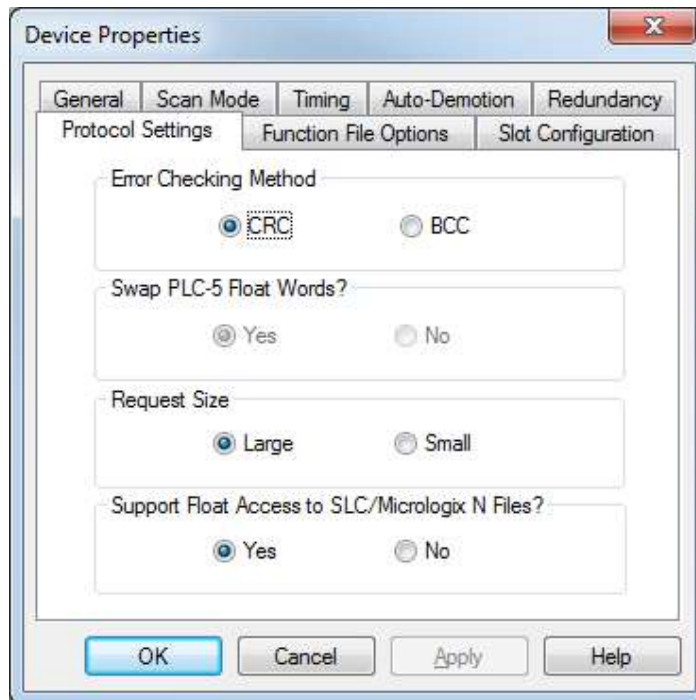
6. Once finished, click **OK**.

- In the Allen-Bradley DF1 Driver, open **Channel Properties** and then select the **Communications** tab. In **Serial Port Settings**, ensure that the values match what is set in the controller.



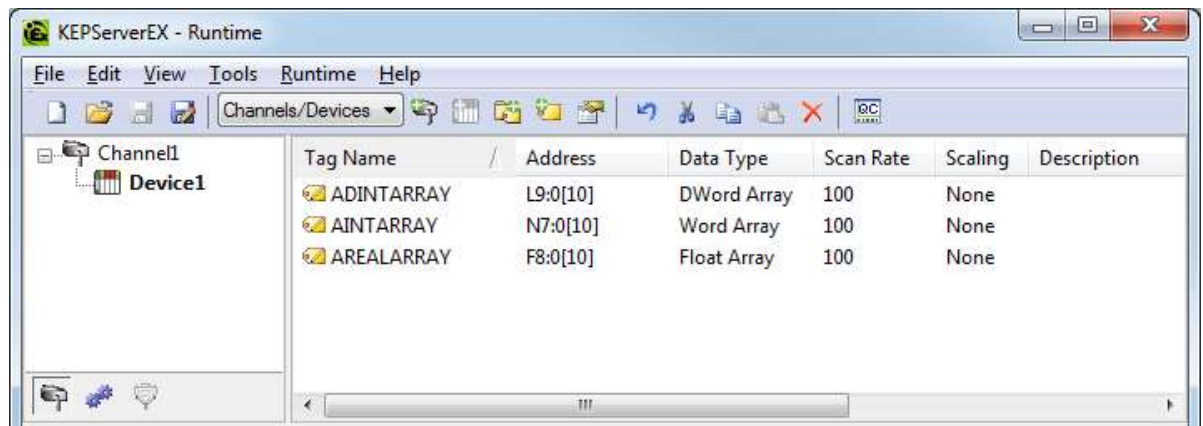
- Once finished, click **OK**.

- Next, open **Device Properties** and select **Protocol Settings**. Ensure that the **Error Checking Method** matches the **Error Detection** setting in the controller.



- Once finished, click **OK**.
- Next, add the tags to KEPServerEX.

Note: Only the MicroLogix device model supports L data types, which are 32 bit data types equivalent to the DINT data type used in the RSLogix5000 controller.



3. Conclusion

At this point, KEPServerEX's Allen-Bradley DF1 Driver should be able to communicate with the RSLogix5000 family controller configured with PLC 2,5 / SLC mapping. Verify connectivity using the OPC Quick Client, which should indicate a value of "Good" quality. Please note that a null-modem serial adapter may be required for testing.