



# Technical Note

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

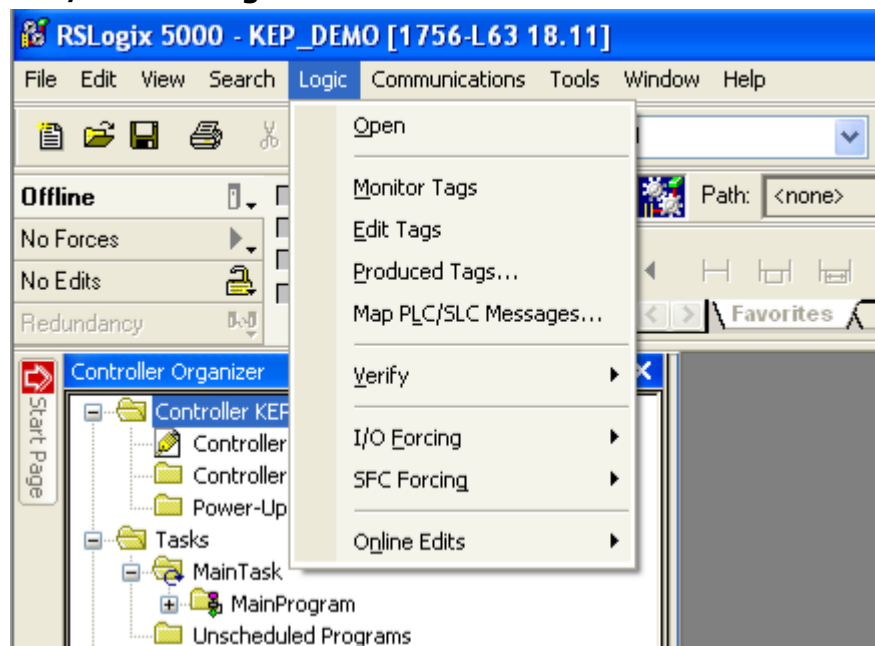
### 1. Introduction

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

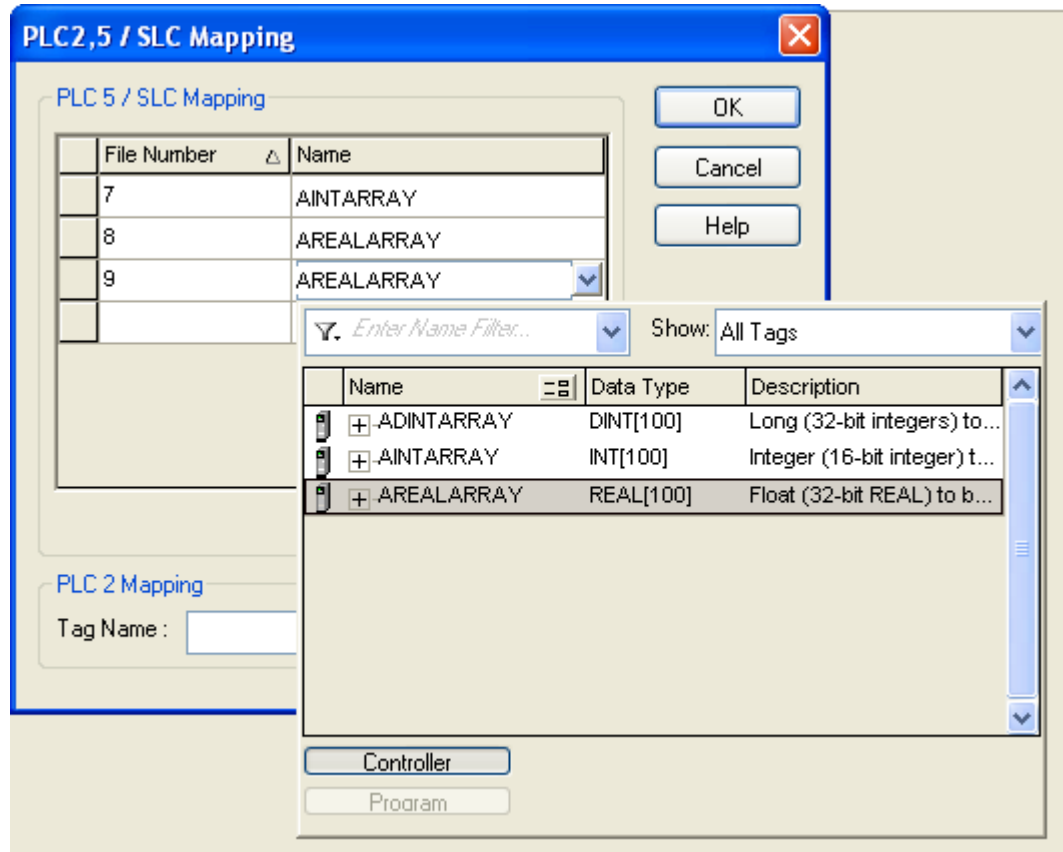
The RSLogix5000 controller tags must be mapped to the PLC/SLC data tables in RSLogix5000. For more information, refer to the instructions below.

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

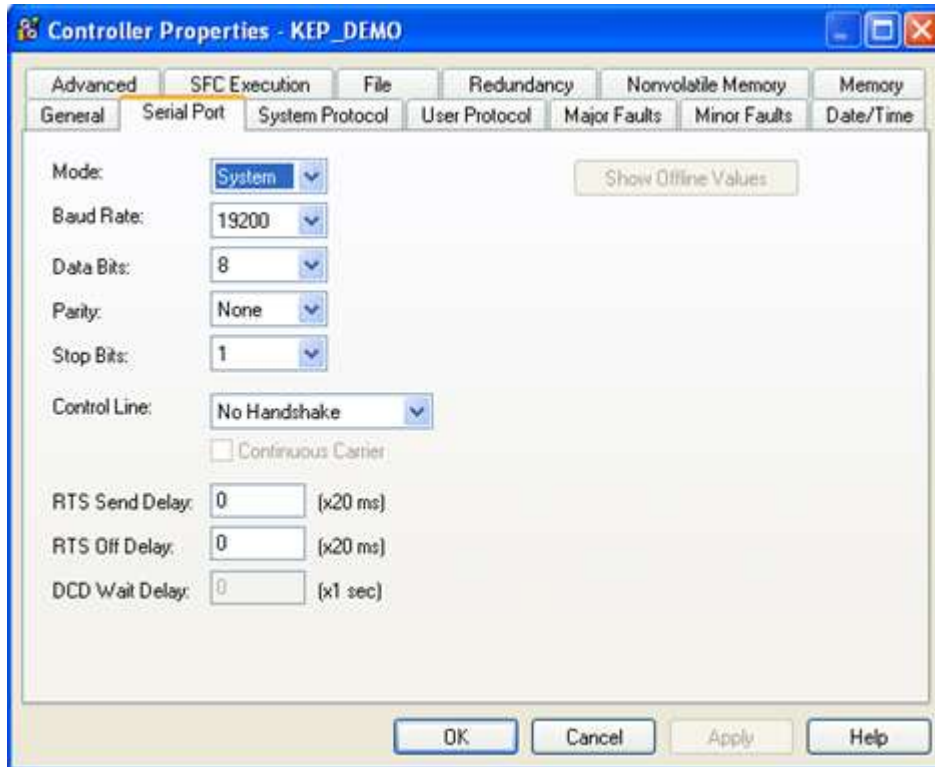


2. In **PLC2,5 / SLC Mapping**, indicate the File Number to be referenced by non-RSLogix5000 controllers with the matching RSLogix5000 controller tags available in the drop-down menu.

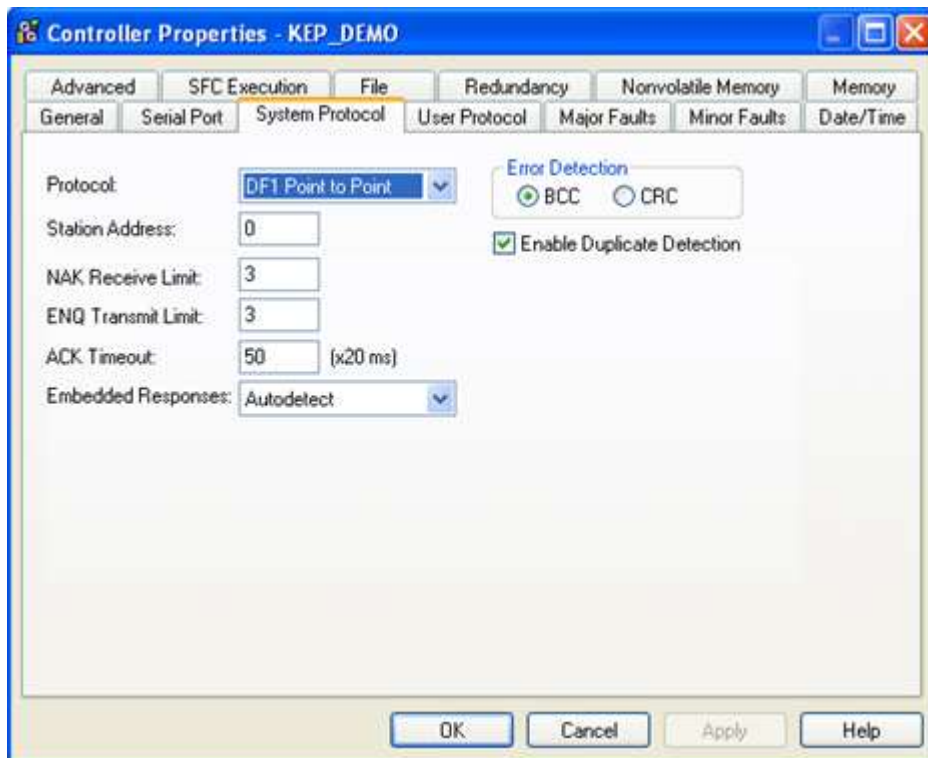
**Note:** In the example shown below, File Number 7 (or N7:0) is mapped to RSLogix5000 controller tag AINTARRAY so that the N7:0 to N7:99 data table elements will be mapped to the RSLogix5000 controller tags AINTARRAY[0] to AINTARRAY[99].



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**.

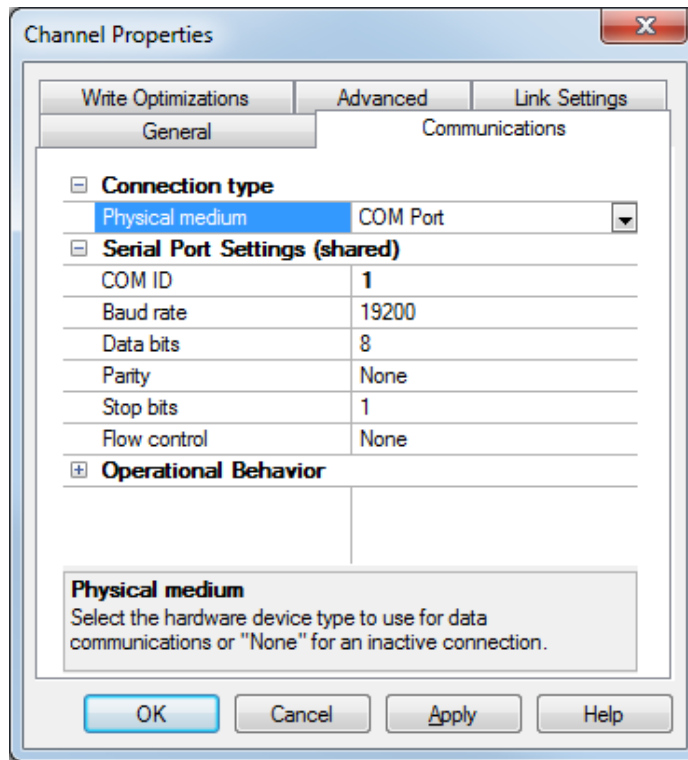


5. On the **System Protocol** tab, verify the **Error Detection** setting.



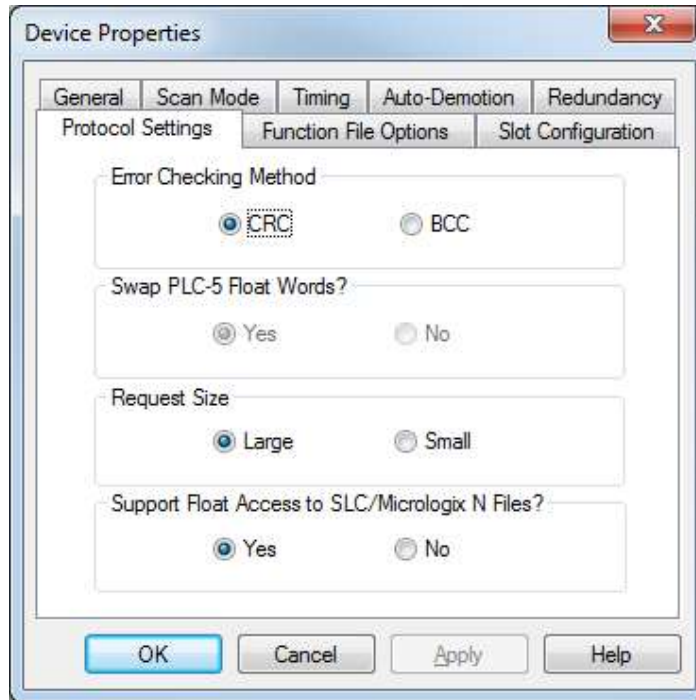
6. Once finished, click **OK**.

7. 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.



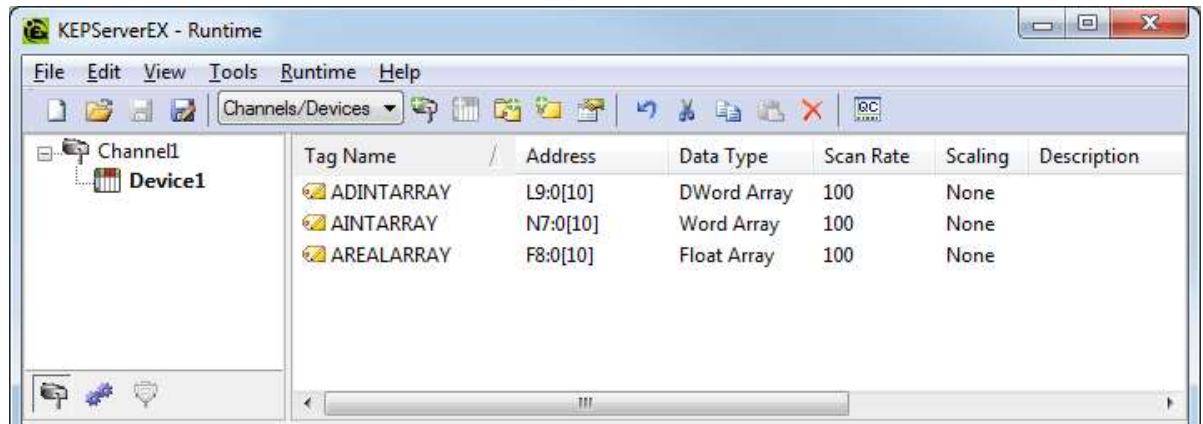
8. Once finished, click **OK**.

- 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.