IO-Link Block AOI Test Report

**Date of Test: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name of Test Engineer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Product Description of Tested Product: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Product Firmware Rev: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PLC used to Test Product: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Version of StudioLogix used to Test Product: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name of AOI File Tested: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Version of AOI File Tested: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Test Notes:**

**Test Passed: Yes / No**

**Test Plan**

* Import L5K into Studio, create catalog ACD, verify all IO-Link Blocks are present in project.
* Create Blank ACD Project for your Test PLC of choice.
* Drag over IO-Link Block Device and corresponding Block AOI from Catalog to Project
* Verify AOI Version matches Rev file and Revision Notes from txt file in github.
* Verify AOI Description matches txt file in github.
* Configure IP Address of local block.
* Bring copy of 8IOL AOI into Logic
* Create tag instances of AOI, Common Data, Read MSG, and Write MSG
* Tie TBEN I, O, and C Data to AOI
* Setup SEND MSG instructions with correct PATH, Service Code 4b, Class 67, Send and Receive Arrays to Common Data Send/Receive Arrays
* Setup Write MSG instructions the same but change service code to 4C
* Download Program to PLC
* Check all DXPs with Input signal
* Check DXPs with output signal
* Plug IO-Link device into each port in turn and verify the right IOLDevice Output turns on and correct VID/DID shows up in the Common Data. Checking the VID/DID verifies the Read MSG was setup and working correctly.
* Trigger each IO-Link Port to DI setting and make sure the correct port goes to DI.
* Test IOL port in DI mode with inputs
* Trigger each DXP Disable Setting and make sure the correct port is disabled.
* Import Universal Device Info and point it at a port that has a device.
* Write the App Tag to the device. This tests the Write MSG is working correctly.
* Import Generic Device AOI and point it to each Port in turn, read an input and write an output. This will verify the Port Process data mapping.