



Which AOI Files Do I Need? 1/15/2018

Banner has developed three types of IO-Link related Add On Instruction (AOI) files for use with the Logix Designer software package from Rockwell Automation.

- 1. Process Data AOIs.** These files can be used alone, without the need for any other IO-Link AOIs. The job of a Process Data AOI is to intelligently parse out the Process Data word(s) into separate pieces of information. All that is required to make use of this AOI is an EtherNet/IP connection to the IO-Link Master and knowledge of where the Process Data registers are located for each port.
- 2. Parameter Data AOIs.** These files require the use of an associated IO-Link Master AOI. The job of a Parameter Data AOI, when working in conjunction with the IO-Link Master AOI, is to provide quasi-real-time read/write access to all IO-Link parameter data in the sensor. Each Parameter Data AOI is specific to a given sensor.
- 3. IO-Link Master AOIs.** These files require the use of one or more associated Parameter Data AOIs. The job of an IO-Link Master AOI is to “translate” the desired IO-Link read/write requests, made by the Parameter Data AOI, into the format a specific IO-Link Master requires. Each IO-Link Master AOI is custom made for a given brand of IO-Link Master.
Add and configure the relevant Banner IO-Link Master AOI in your ladder logic program first; then add and configure Banner IO-Link Device AOIs as desired, linking them to the Master AOI as shown in the relevant AOI documentation.