

This is a simple example that uses EthernetIP to send the X,Y and angle position of a dark blob found on an image to an Allen-Bradley ControlLogix PLC. This example was created and tested using a ControlLogix 5561 controller (Rev 13.25) and an Impact C-series device (Ver 7.2).

Because all the values are transmitted as real values (32bits), Reset Inspection ID and Trigger Camera are false if zero and true if anything else. The Impact device must be online before it can receive any events.

PLC I/O Configuration

- 1756-ENET/B Ethernet Communication Interface (Ethernet_Bridge)
 - o Generic Ethernet Module (Impact_Device)
 - IP address set to the device IP address
 - Comm_Format : Data – REAL
 - Input size 4, Instance 1
 - Output size 2, Instance 1
 - Configuration size 1, Instance 1

I/O mapping

Impact → PLC

Impact_Device.I.Data[0] – Inspection ID
Impact_Device.I.Data[1] – X Position
Impact_Device.I.Data[2] – Y Position
Impact_Device.I.Data[3] – Angle in Degrees

PLC → Impact

Impact_Device.O.Data[0] – Reset Inspection ID
Impact_Device.O.Data[1] – Trigger Camera