

This is a simple example that uses EthernetIP to change a recipe from 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 DINT values (16bits), 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 – DINT
 - Input size 1, Instance 1
 - Output size 2, Instance 1
 - Configuration size 1, Instance 1

I/O mapping

Impact → PLC

Impact_Device.I.Data[0] – Recipe Load Error Number

(0=no error, 1=not able to unload current recipe, 2=recipe not found)

PLC → Impact

Impact_Device.O.Data[0] – Recipe ID Number

Impact_Device.O.Data[1] – Change Recipe Trigger