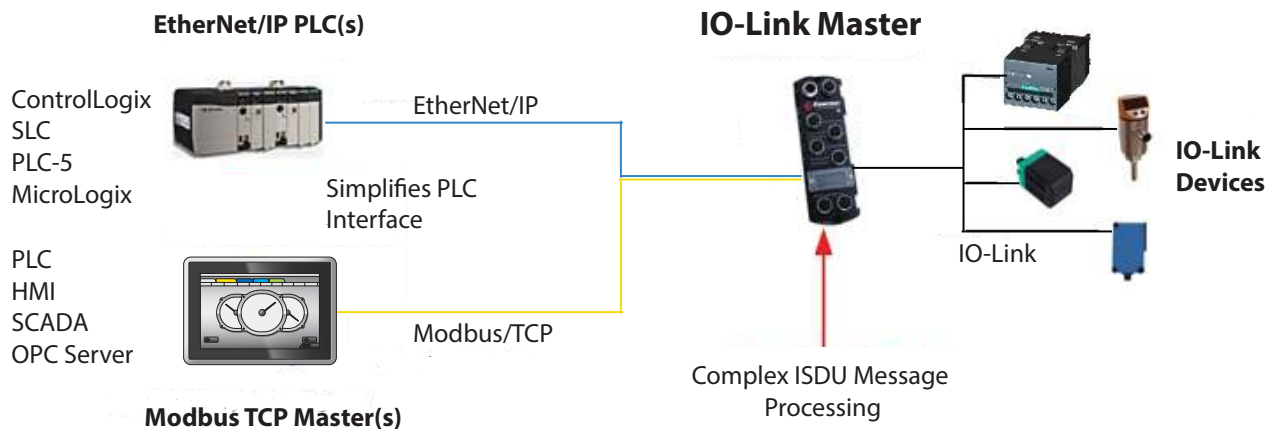


IO-Link | ISDU Handling

Providing PLC access to IO-Link ISDU (Index Service Data Unit) blocks requires a significant amount of complex programming. That complexity must be handled somewhere – either in the PLC or in the IO-Link Master. Control's IO-Link Master 4-EIP handles all of the complexity and provides a flexible, easy-to-use interface that eliminates lengthy PLC programming for process data and ISDU handling.



The Control IO-Link Master provides a flexible and simplified ISDU interface with the following features:

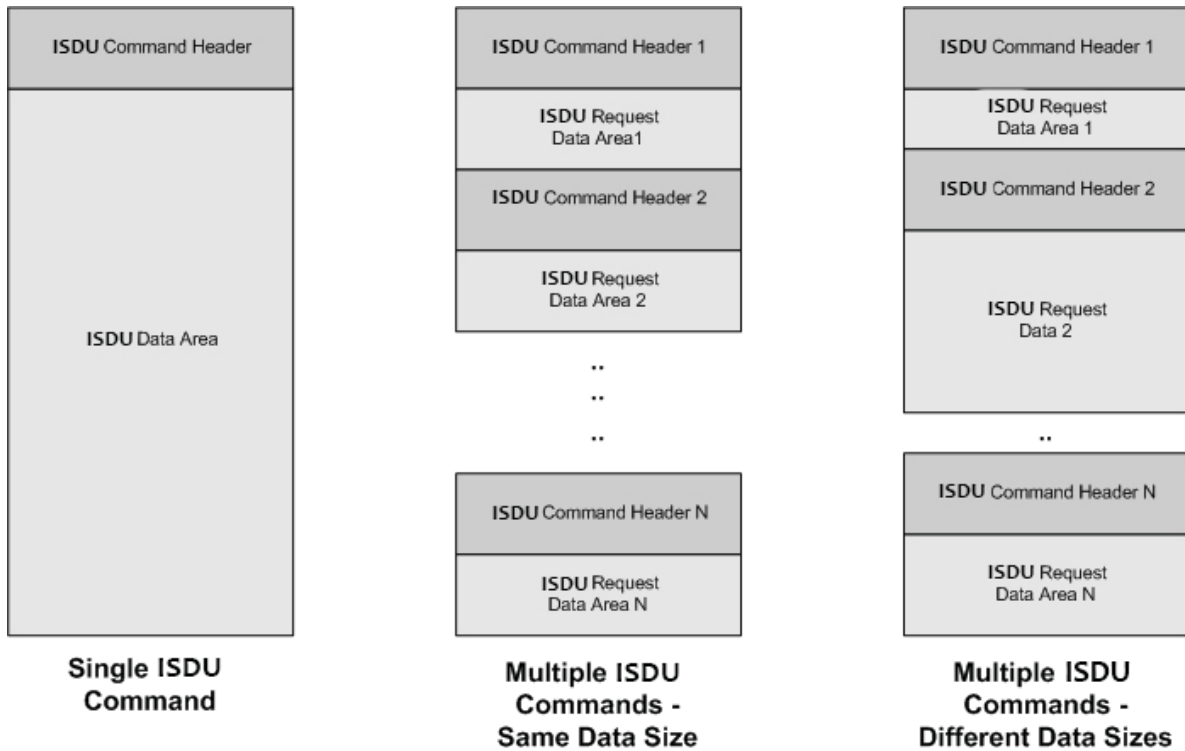
Multiple or single ISDU command message support:

- For devices that require access to multiple ISDU blocks, grouping multiple commands into a single message can simplify PLC programming.
- Up to 40 individual ISDU read and write commands contained in one EtherNet/IP message.
- Each ISDU command contains:
 - Selectable byte swapping (none, 16-bit, or 32-bit)
 - Selectable payload sizes (4 to 232 bytes)
 - ISDU block index
 - ISDU sub-index
 - Length of read or write
 - Data payload

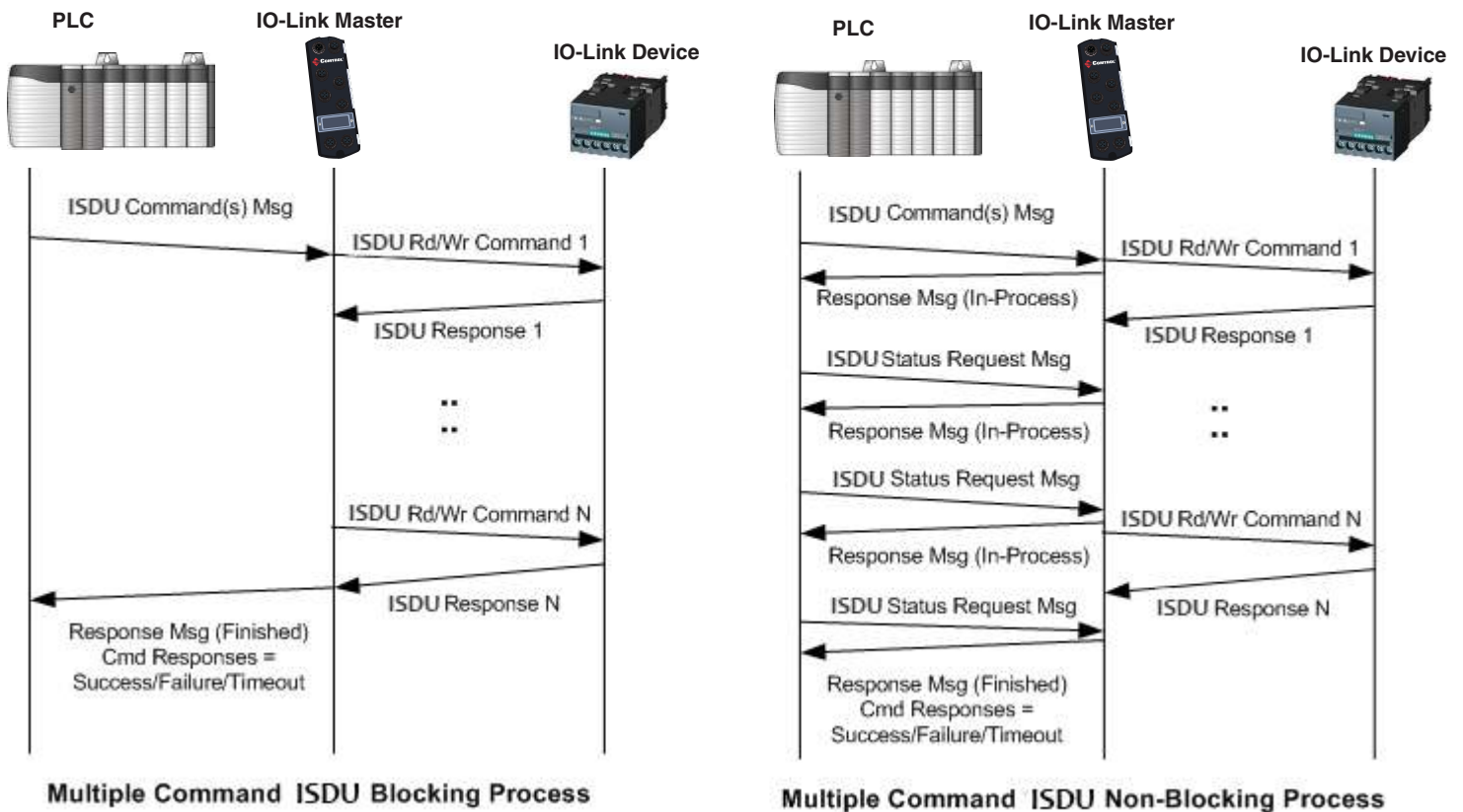
Blocking and non-blocking messaging methods:

- Blocking PLC messages – The IO-Link Master buffers response to the PLC until all ISDU commands contained in the message have completed. Designed for installations that are not affected by longer than normal message response times.
- Non-Blocking messages - Requires a PLC to poll the ISDU message response status until the ISDU command(s) have all been processed. Designed for high-bandwidth and low-latency installations where response times are critical.

The PLC ISDU message format is designed for flexibility and ease of use. Each message can contain a single command, multiple commands with the same data area size, or multiple commands with varying data area sizes.



Message blocking and non-blocking methods:



Warranty Information
 Comtrol offers a 30-day satisfaction guarantee and 5-year limited warranty.

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