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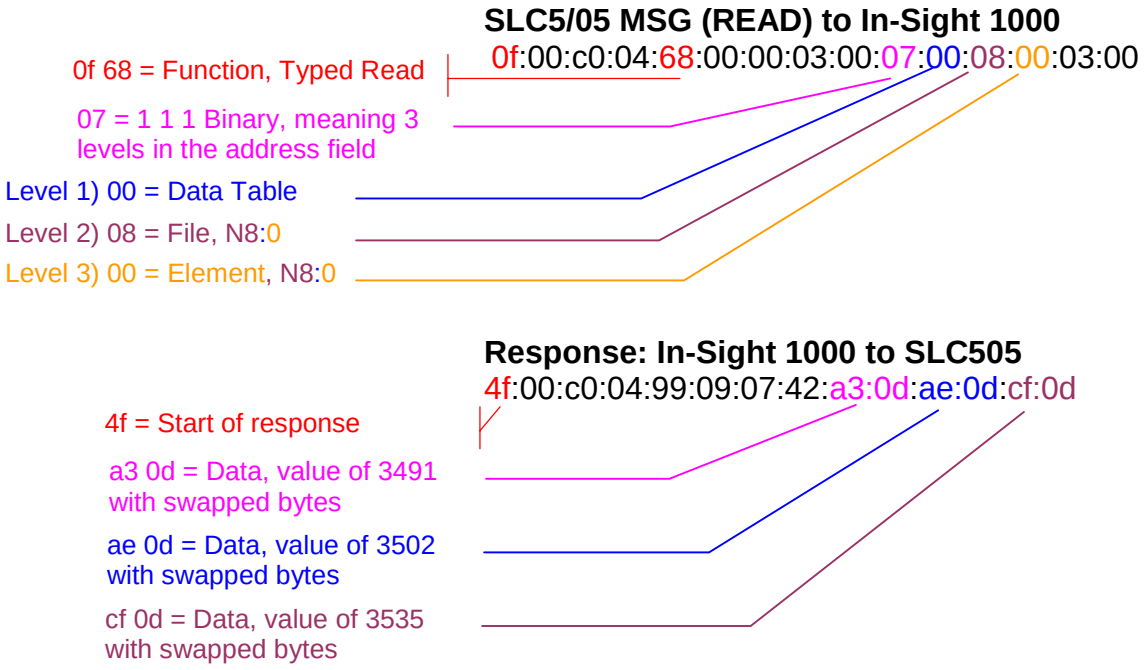
The purpose of this document is to show and explain the test results for the MVI46/71-DFNT (EtherNet/IP) and MVI46/56/71-MNET (Modbus TCP/IP) when communicating to a Cognex In-Sight 1000 Camera.

An EtherNet/IP connection could not be established between the DFNT units and the In-Sight 1000. Modbus TCP/IP connections were successful between the In-Sight 1000 and the MNET modules.

The In-Sight 1000 camera supports PLC-5 Typed Read/Write commands, and the MVI46/71-DFNT supports PLC-5 Word Range Read/Write commands.

An Ethernet Sniffer was used to capture traffic between the different devices. A detailed description of that data capture is below.

The following shows a successful MSG instruction from the SLC505 to the In-Sight 1000.



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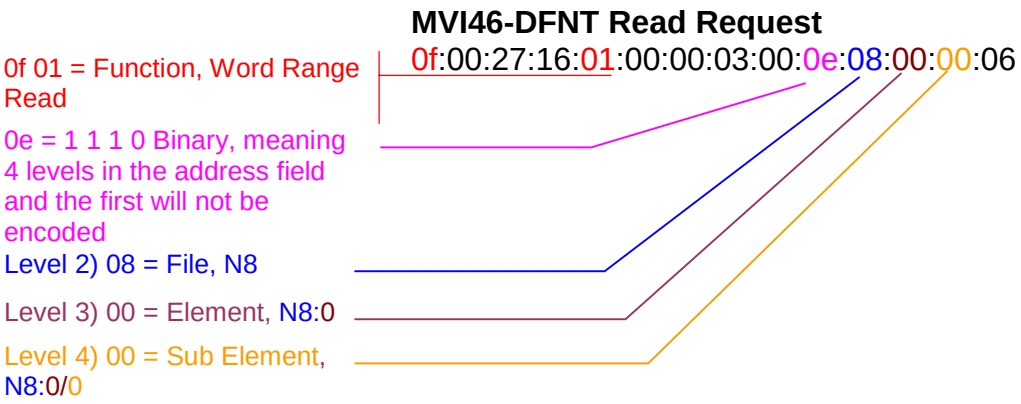
The following shows an unsuccessful Word Ranged Read request from the MVI46-DFNT to the In-Sight 1000 camera.



Response: In-Sight 1000 to MVI46-DFNT
4f:00:27:16
Response shows no data.

An alternate solution for customers, who wish to communicate from their AB PLC to an In-Sight 1000 visual system, is to use the MVI46/56/71-MNET that utilizes Modbus TCP/IP. The MNET and the In-Sight 1000 were able to read and write data in both directions.

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