

# IP-S7-Link .Net Advanced MATLAB Essentials

## What is the IP-S7-Link .Net Advanced MATLAB?

The IP-S7-Link .Net Advanced MATLAB is a toolbox which uses the software driver framework IP-S7-Link .Net Advanced which does provide a whole implementation of the internet protocol (IP) stack used to communicate and exchange data with programmable logic controllers (PLC). While the framework does realize a fluently transition of PC specific data to PLC specific data formats and vice versa. And while the implemented communication stack does realize complex optimization algorithms to reduce the amount and costs of interactions with the PLC device, the toolbox does provide a nearly one-to-one interface from MATLAB to the framework. This is done using a fully object-orientated API which does also take care about a fluently transition of MATLAB specific data to PLC specific data formats and vice versa. Through that it does package the whole logic into fluently class interfaces which target common automation scenarios in MATLAB applications and not any knowledge about the stack behind the driver is required.

## Related Topics

Title	Description
<a href="#">SIMATIC controllers from Siemens</a>	A short overview of the Automation Systems provided by the Siemens AG.
<a href="#">Technical documentation SIMATIC Controller</a>	Provides a set of documents regarding the different automation solutions provided by the Siemens AG.
<a href="#">SIMATIC Programming with STEP 7</a>	The whole documentation to develop using STEP 7.



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