

PSDIRECT

Native CitectSCADA Driver for S5 & S7 PLCs



Introduction

- PSDIRECT driver made available to remove the need for Siemens SoftNet and specific hardware
 - No longer do we have to provide Siemens with money for our solutions, which is always a good thing!
- Developed by CitectSCADA integrator in South Africa
- Driver already installed at a number of sites since 1998
 - Majority of existing sites have large number of PLCs and Variable Tags
 - Proven and tested communication solution

Supported S7 hardware

- Siemens S7 300 & 400
 - Ethernet ISO Protocol
 - S7 300 With CP 343-1 Industrial Ethernet
 - S7 400 With CP 443-1 Industrial Ethernet
 - Ethernet TCP/IP Protocol
 - S7 300 With CP 343-1 Industrial Ethernet
 - S7 400 With CP 443-1 Industrial Ethernet
- Siemens S7 200
 - MPI requiring a MPI \leftrightarrow RS232 converter
 - Siemens Part No : 6ES7 972-OCA21-0XA0 (~300Euro)

Supported S5 and other hardware

- Siemens S5 115, 135 & 155
 - Ethernet ISO Protocol
 - S5 115U With CP535 or CP143 or CP1430-TF
 - S5 135U With CP535 or CP143 or CP1430-TF
 - S5 155U With CP535 or CP143 or CP1430-TF
 - Ethernet TCP/IP Protocol
 - S5 115U With CP535 or CP143 or CP1430-TCP
 - S5 135U With CP535 or CP143 or CP1430-TCP
 - S5 155U With CP535 or CP143 or CP1430-TCP
- OEM hardware using Siemens Firmware
 - Vipa (CPU 314/315/316 using MPI) www.vipa.de
 - Adam (8000 Series using MPI) www.advantech.com

Why use the PSDIRECT Driver?

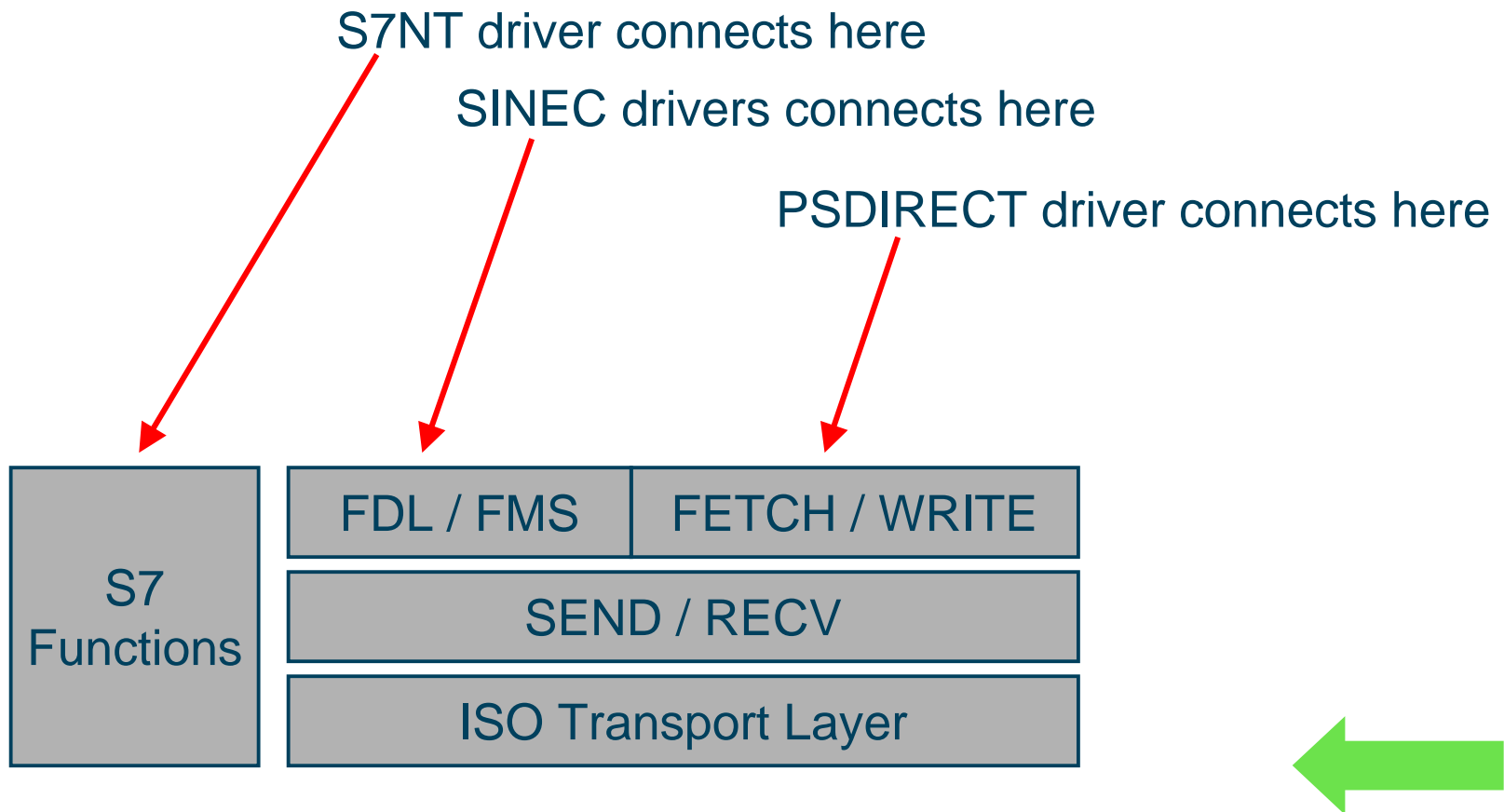
- PSDIRECT vs. S7NT/S7NTSP/SINEC
 - Better performance due to no need for Siemens SoftNet
 - 42 S7-400 PLCs on one network – sub second updates for 1300 Poll Blocks spread over PLCs
 - No need to purchase Siemens SoftNet or any specific Siemens hardware
 - Easier to configure and maintain due to no need for Siemens SoftNet
 - Supports up to 64 PLCs on the same network
 - Each PLC data block can be configured with individual poll times
 - PLC communication can be configured and debugged without CitectSCADA running

Driver Architecture

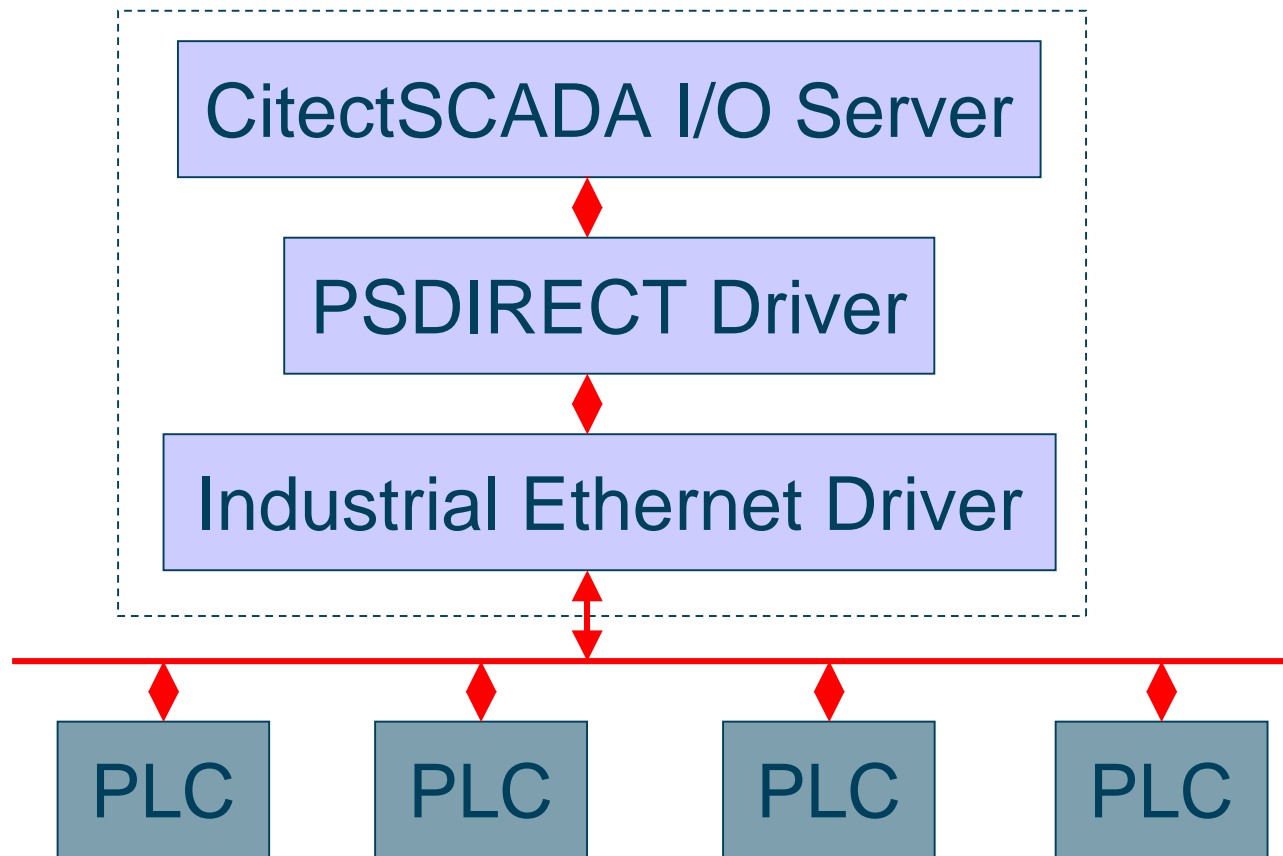
- There are two parts to the PSDIRECT driver
 - Front End Component
 - Installed as CitectSCADA PSDIRECT driver pack
 - Back End Components:
 - Siemens Industrial Ethernet driver
 - Depending on communication medium there may be a need to install an additional Windows network protocol
- PSDIRECT Driver uses Fetch/Write functions
 - Existing S7NT driver uses S7 Functions



Architecture



Architecture



Product Support

- The PSDIRECT driver is fully supported by Citect S-Business
- A support document is available to the user with the PSDIRECT driver installation
- Any defects reported will be resolved as per the standard support process

How to order it

- The PSDIRECT driver requires a license in the CitectSCADA hardware key
 - This license is at this stage not visible in CiUsafe or on the Citect Website
- Without a license it will run 2h in demo mode
- One license per IO Server is required for redundancy
 - One license for Primary and one for the Standby

How to order it

- Put CT305140 as an item on the Citect purchase order
- Driver should be downloaded from www.citect.com/driverweb
- Pricing per license
 - 400 Euro, 650 AU\$, 500 US\$