Web-Ready

InduSoft
Tools for Automation

IWS with AB Networks

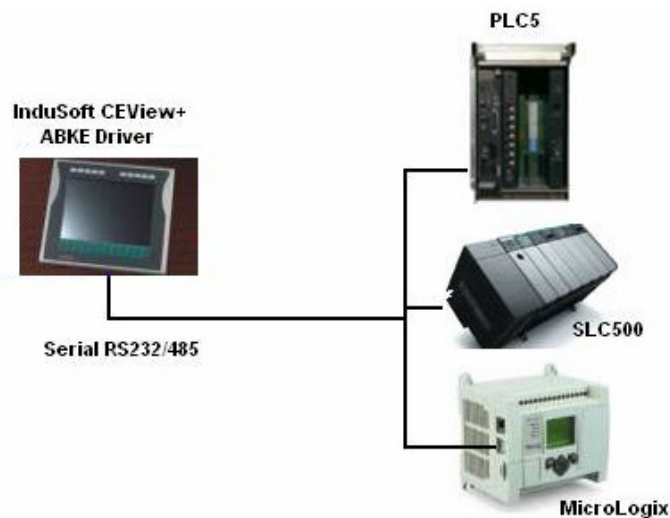InduSoft Web Studio Solutions for
Allen Bradley Networks

Introduction

This document describes all the possible ways to interact an InduSoft Web Studio or CEView application to the Allen Bradley Networks
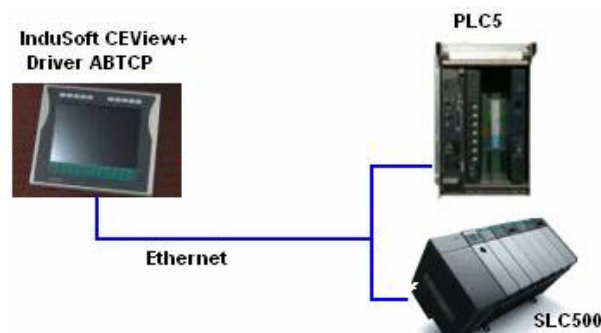
1.) Native Ethernet/Serial Drivers – Compatible with WinCE/XP/XPe/2000/2003

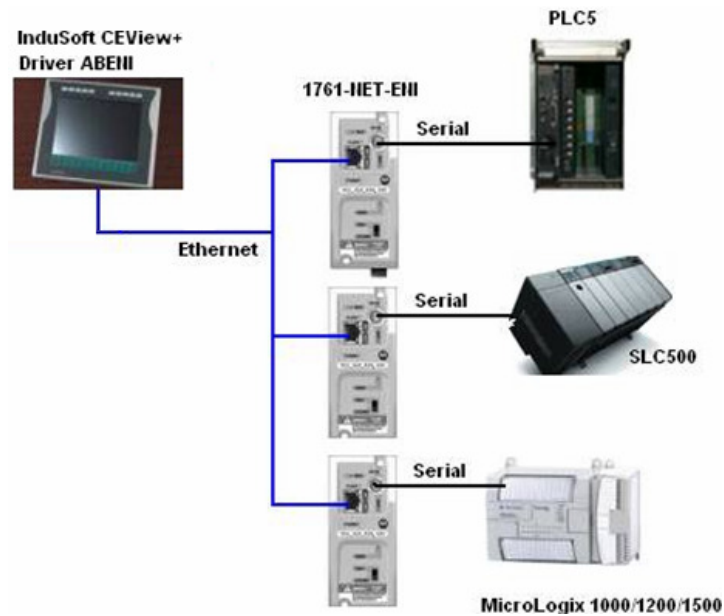We have the following drivers that do not need any additional specific PC-card

1.1) **ABKE**: This is a serial Driver that implements the **DF1** protocol and communicates with the families **PLC2, PLC3, PLC5, SLC500** and **MicroLogix 1000/1100/1200** and **1500.** The only requirement is correct serial cable (usually a Null-Modem cable for PLC5, SLC and MicroLogix 1500 Channel 1, and a 1761-CBL-PM02 for the other MicroLogix 1000/1100/1200 and 1500 Channel 0)
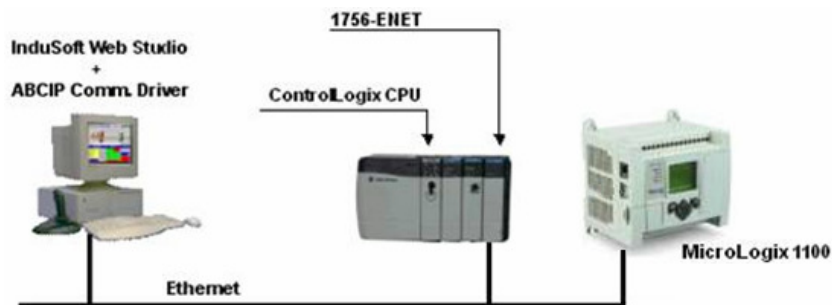

1.2) **ABTCP**: This driver implements the Allen Bradley **DF1** protocol, and it communicates with the PLC5 and SLC500 families using the Ethernet card usually embedded in the CPUs such as **PLC5/40e**, **PLC5/80e**, **SLC5/03** and **SLC5/05**.
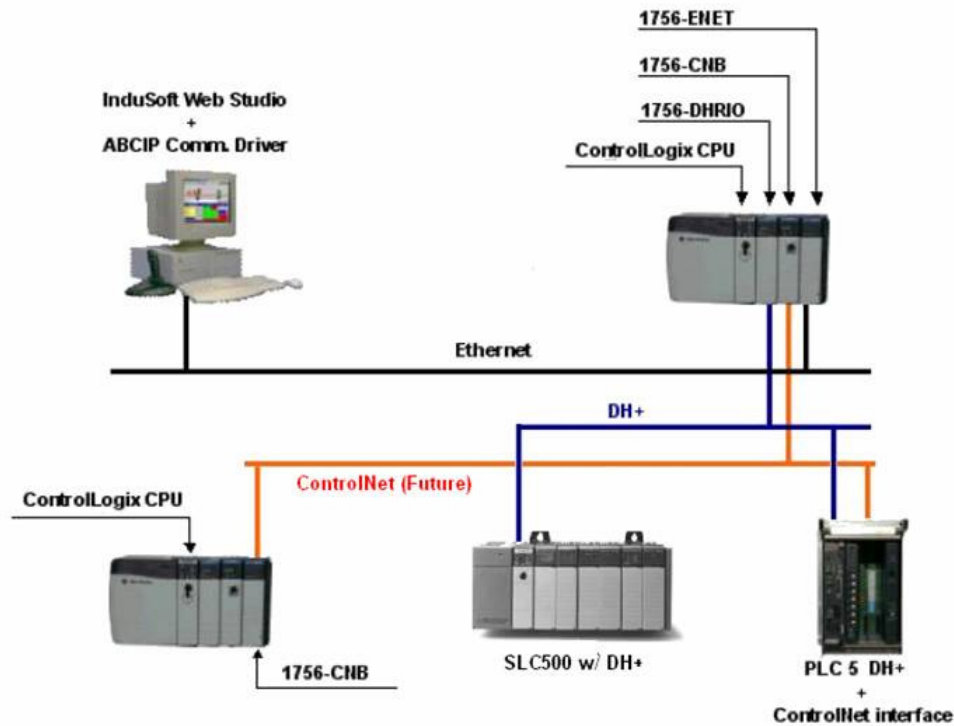
1.3) ABENI: This driver implements the DF1 over Ethernet/IP used with the Allen Bradley 1761-NET-ENI Bridge, which converts Ethernet/IP Communication to Serial DF1 for the families PLC5, SLC500 and MicroLogix 1000, 1200 and 1500
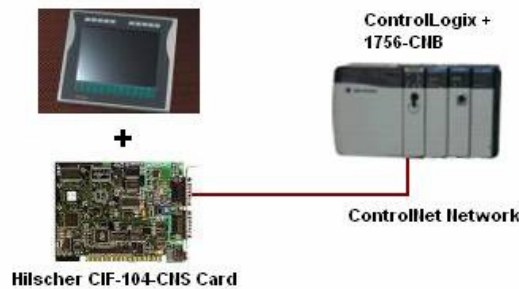

1.4) ABCIP: This driver implements the protocol **CIP** over **Ethernet/IP** and it is used with the **5000 Logix** Family (**ControlLogix, FlexLogix, CompactLogix)** and **MicroLogix 1100.** This driver also supports Routing making it really flexible with the different AB PLCs. Please refer to the ABCIP.pdf driver document for a detailed description for this feature.
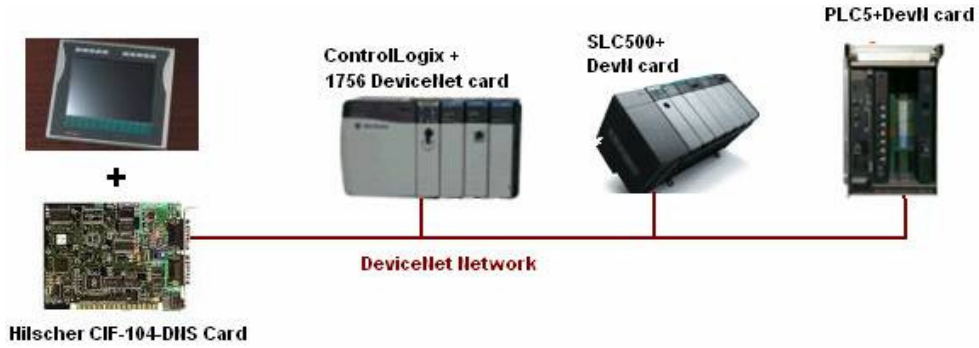
2.) Proprietary networks compatible with WinCE XP/XPe/2000/2003: DeviceNet and ControlNet

2.1) CNS: This driver implements the **ControlNet** slave using **Hilscher SMS-CIF104-CNS** PC card. This card has its firmware compiled also for WinCE and it has in the PC-104 format. So, in this case, you would need to install the Hilscher card CIF-104-CNS on your WinCE panel and this is will be a slave in the Controlnet Network

2.2) DEVN: This driver implements the **DeviceNet** slave using **Hilscher SMS-CIF104-DNS** PC card. This card has its firmware compiled also for WinCE and it has in the PC-104 format. So, in this case, you would need to install the Hilscher card CIF-104-DNS on your WinCE panel and this is will be a slave in the DeviceNet Network

3.) Proprietary AB networks compatible with WinNT/2k/XP/XPe/2003 only: DH+ and RIO

3.1) SSTDH: This driver implements the **DH+** protocol to the families PLC5 and SLC500 using the **SST 5136-SD-104 or SST-DHP-PC** PC cards.

3.2) STRIO: This driver implements the AB **Remote I/O** protocol Scanner Mode to the family PLC5 using the **SST 5136-SD-104** card, implementing both the I/O and the Block Transfer

4.) Special Case: DH+ over Windows CE

If you really need a solution for **DH+** for WinCE, you can use our **ABKE** driver in conjunction with a DF1-DH+ converter:
http://www.protocolconverter.com/products/dl3000kfx.html

Map of Revision

Revision	Author	Date	Comments
A	Andre Bastos	August, 2006	▪ Initial version