

## IWS with AB Networks

InduSoft Web Studio Solutions for  
Allen Bradley Networks

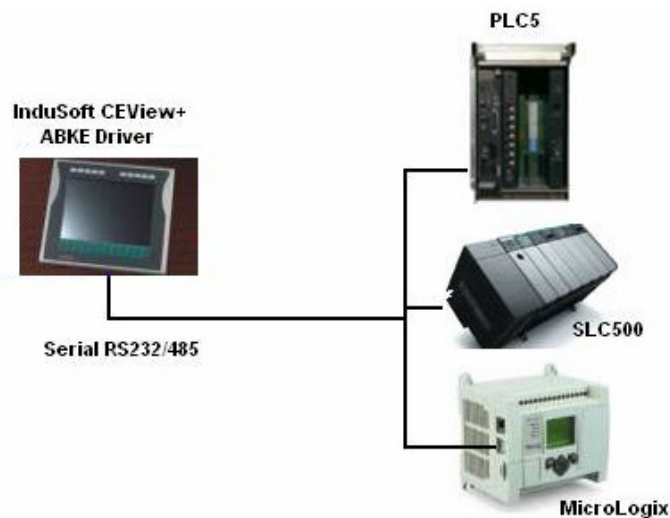
### Introduction

This document describes all the possible ways to interact an InduSoft Web Studio or CView application to the Allen Bradley Networks

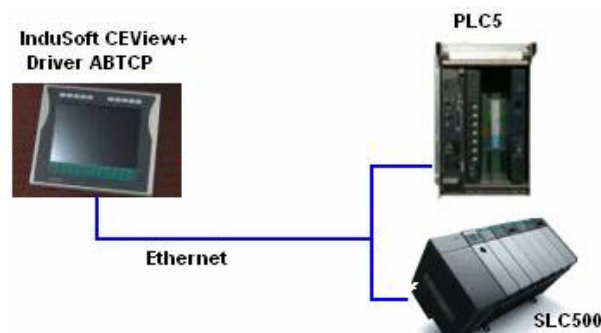
### 1.) Native Ethernet/Serial Drivers – Compatible with WinCE/XP/XPe/2000/2003

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

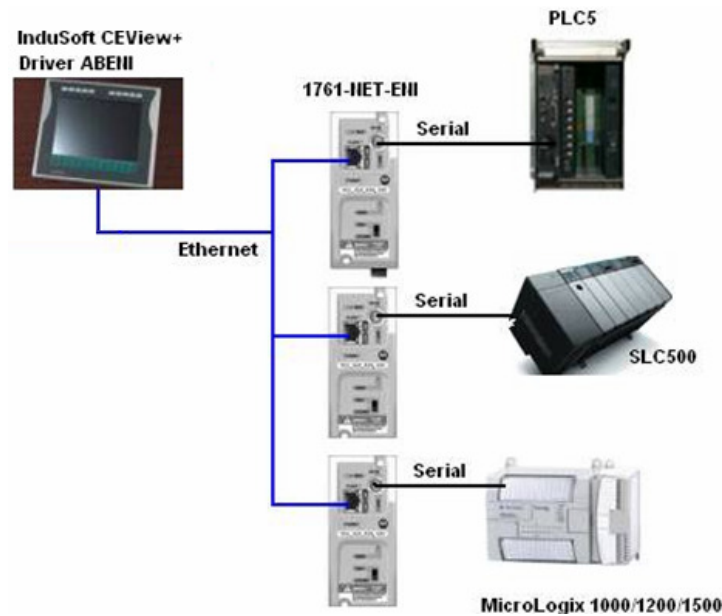
- 1.1) **ABKE**: This is a serial Driver that implements the **DF1** protocol and communicates with the families **PLC2**, **PLC3**, **PLC5**, **SLC500** and **MicroLogix 1000/1100/1200** and **1500**. The only requirement is correct serial cable (usually a Null-Modem cable for PLC5, SLC and MicroLogix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

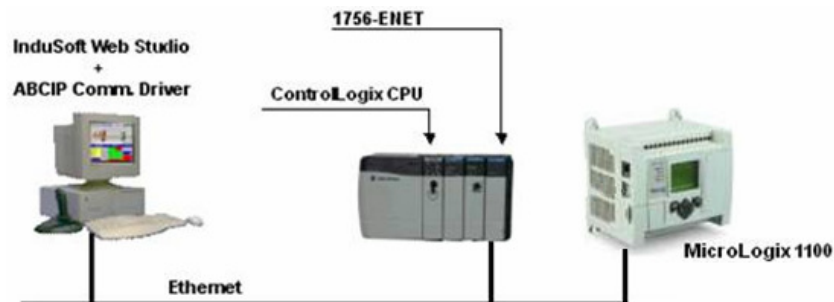


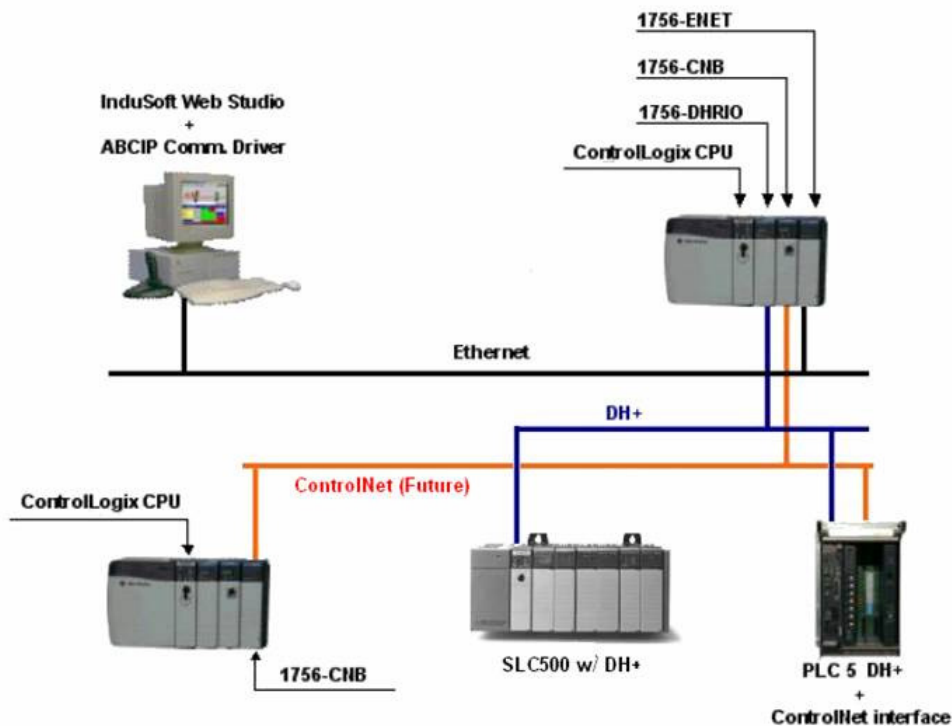
**1.3) ABENI:** This driver implements the DF1 over Ethernet/IP used with the Allen Bradley 1761-NET-ENI Bridge, which converts Ethernet/IP Communication to Serial DF1 for the families PLC5, SLC500 and MicroLogix 1000, 1200 and 1500



**Note:** At the time that this document was generated, the 1761-NET-ENI module had 4 series and different firmware versions. The **ABENI** works well with the 1761-NET-ENI series **A**, **B** and **D**. The 1761-NET-ENI series **C** does not work with our driver **ABENI** and, during the tests, we realized that this module does not work even with other packages, such as different OPC Servers.

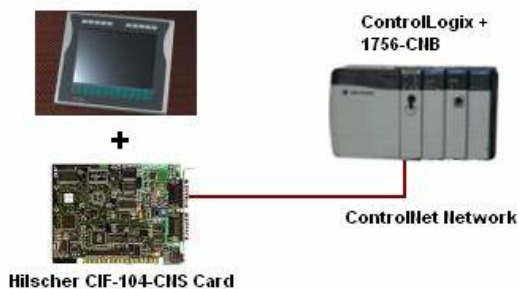
**1.4) ABCIP:** This driver implements the protocol **CIP** over **Ethernet/IP** and it is used with the **5000 Logix** Family (**ControlLogix**, **FlexLogix**, **CompactLogix**) and **MicroLogix 1100**. This driver also supports Routing making it really flexible with the different AB PLCs. Please refer 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
B	Andre Bastos	August, 2006	▪ Added note about the 1761-NET-ENI module Series differences and their impact to the driver ABENI