

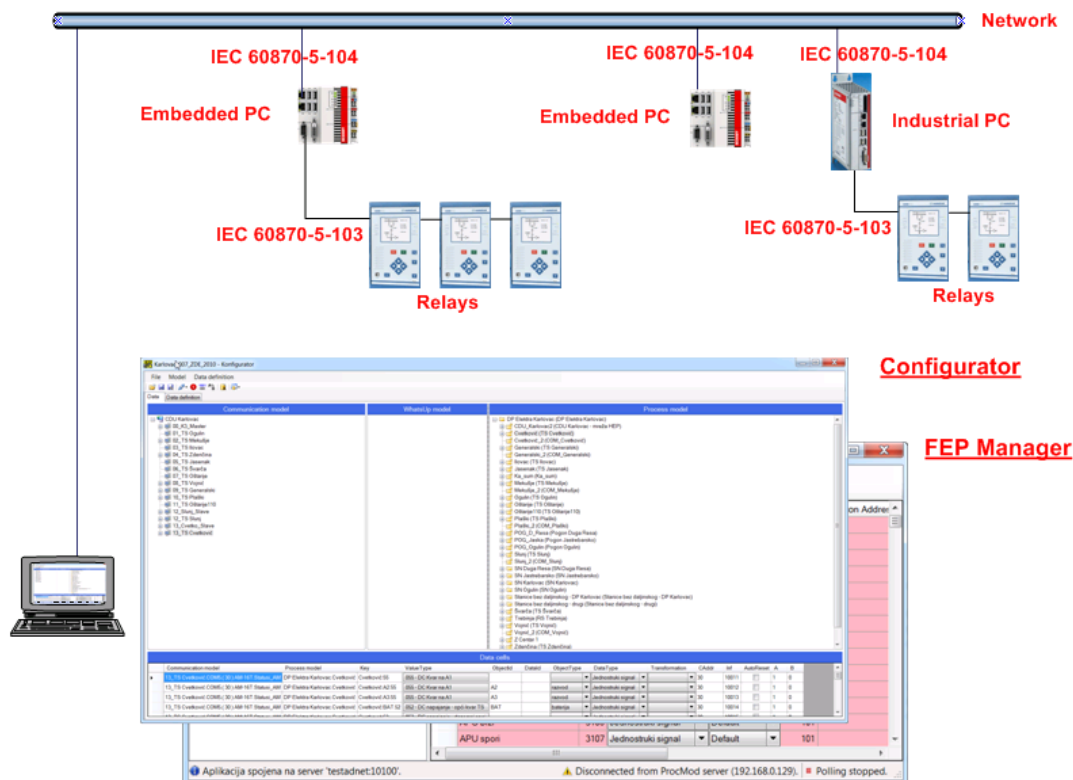


ADNET

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NetVision Protocol Converter



Description

NetVision Converter is intended for conversion of process data, from any mixture of IEC 60870-5-103 and ADS protocols on the equipment side, to the standard IEC 60870-5-101/104 towards the controlling Centre. The primary purpose is introduction of remote control and local supervision at small distribution stations or switchgears. Therefore it supports mixing microprocessor relays and Beckhoff Automation PLCs at small stations and data aggregation towards the Centre. Aplikacije potrebne za punu funkcionalnost konvertera su Configurator, FEP Manager i Process Client. Configurator služi za izradu projekta iz kojeg možemo komunikacijski dio mrežno prenjeti na Master i Slave servera svakog računala, a i dio procesnih podataka se preko mreže mmože prenjeti u Procesni server Konvertera. FEP Manager koristimo za pokretnje i zaustavljanje prikupljanja podataka FEP servisa, dok Process Client služi za pregled i testiranje podataka.

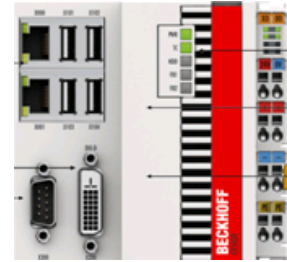
The Converter has been specially designed to utilise Windows Embedded, but can function on any Windows OS.

Heterogeneous

Environment

The NetVision Converter is a .Net C# application that requires less than 100MB RAM and about 250MB disk space for installation.

As a suitable platform Adnet recommends Beckhoff CX5010 which combines Windows XP Embedded, TwinCAT, 512MB RAM and 2GB disk card space for the installation . With the Converter this enables automating small transformer stations and attaching multiple relays to a COM port, with all data being sent to the controlling Centre via the network. When required, further COM ports can be added for diverse relays, as well as extra I/O grippers for the automation. TwinCAT software can be available via the network rather than having to be on the embedded platform.



Distributed

Networking

The distributed nature of the product allows for configuring and controlling the process and comms system over a network. From a "central" network point, using an ordinary PC, you can manage Converter projects on all remote points i.e. the embedded or industrial PCs. All changes are re-distributed towards the dislocated process data and Front End Processor comms structures.

Protocols

On the server side, the Converter supports standard protocols IEC 60870-5-103 and ADS (Beckhoff Automation). On the slave side, towards the Centre, protocol IEC 60870-101/104 is supported. On request, it is possible to cater for other protocols on either side.

Conv. code 001 (IEC101/104xxIEC103/ADS) - Protocol Converter			
Server Name	Description	Application Name	
	Configuring Process Data and FEP Servers	Konfigurator	
Process File	Process Data	Process Client	
FEP Server	Master Protocols (IEC 60870-5-103 and Beckhoff ADS)	Fep Manager	
FEP Slave (server)	Slave Protocols (IEC 60870-5-101/104)	Fep Manager	

Order data: CONV code 001 (IEC101/104xxIEC103/ADS)

Rendering For Multilingual Support

All Converter user interfaces are available in English. Should that prove an obstacle to efficient working for local, non-English speaking teams, another application, Adnet.Render, can be used to swiftly perform the desired localisation.