EtherNet/IP terms and abbreviations

Term	Explanation
DLR	Device Level Ring. DLR network is a single-fault tolerant ring network topology intended for interconnection of automation devices. FENA-21 supports DLR.
EDS file	The Electronic Data Sheet (EDS) file identifies the properties of the device to the EtherNet/IP client. Each type of drive and application program requires its own EDS file.
Input	In the ODVA EtherNet/IP specification the word 'input' is used to describe data flow from a device (such as the adapter module) to the network.
I/O Assembly selection	Smart networked devices (like FENA) can produce and/or consume more than one I/O value. Typically, they will produce and/or consume one or more I/O value, as well as status and diagnostic information. Each piece of data communicated by a device is represented by an attribute of one of the device's internal objects. Communicating multiple pieces of data (attributes) across a single I/O connection requires that the attributes be grouped or assembled together into a single block.
ODVA™	ODVA stands for Open DeviceNet Vendor Association. ODVA is an independent organization that promotes interoperability between different manufacturers' EtherNet/IP products. ABB is an Associate Member at ODVA.
Output	In the ODVA EtherNet/IP specification the word 'output' is used to describe data flow from the network into a device (such as the adapter module).

PROFINET IO terms and abbreviations

Term	Explanation
Acyclic communication	Communication in which messages are sent only once on request
Array	Parameter consisting of data fields of equal data type
Cyclic communication	Communication in which parameter/process data objects are sent cyclically at pre-defined intervals
DCP	Discovery Control Protocol. A protocol that allows the master controller to find every PROFINET IO device on a subnet.
Fault	Event that leads to tripping of the device
GSD file	ASCII-format device description file in a specified form. Each different slave type on the PROFINET IO network needs to have its own GSD file. GSD files in PROFINET IO are written in GSDML.
Index	Access reference for objects in PROFINET IO
I/O controller	Control system with bus initiative. In PROFINET IO terminology, I/O controllers are also called master stations.
Master	Control system with bus initiative. In PROFINET IO terminology, master stations are also called active stations.
Name	Symbolic name of a parameter
Parameter	Value that can be accessed as an object, eg, variable, constant, signal
Parameter number	Parameter address
Parameter/Process	Special object that contains parameter and process
Data object	Special object that contains parameter and process data
Process data	Data that contains Control word and reference value or Status word and actual value. May also contain other (user-definable) control information.

Term	Explanation
Slave	Passive bus participant. In PROFINET IO terminology, slave stations (or slaves) are also called passive stations. Also referred to as node.
Warning	Signal caused by an existing alarm which does not lead to tripping of the device

The text in *italics* is the original German term.

Abbreviation	Explanation
ACT	Actual value *Istwert*
DAP	Device access point
DP	Decentralised Periphery *Dezentrale Peripherie*
DP-V0	PROFINET IO extension to the EN 50170 standard, providing the basic functionality of DP, including cyclic data exchange
DP-V1	PROFINET IO extension to the EN 50170 standard, including, eg, acyclic data exchange
GSDML	General Station Description Markup Language
ISW	See ACT.
MAP	Module access point
MRC	Media Redundancy Client
MRM	Media Redundancy Manager
MRP	Media Redundancy Protocol
PAP	Parameter access point
PD	Process data *Prozessdaten*
PKE	Parameter identification *Parameter-Kennung*
PKW	Parameter identification value *Parameter-Kennung-Wert*

Abbreviation	Explanation
PNU	Parameter number *Parameternummer*
PPO	Parameter/Process data object *Parameter-/Prozessdaten-Objekt*
PWE	Parameter value *Parameter-Wert*
PZD	See PD.
PZDO	Process data object *Prozessdatenobjekt*
SAP	Service access point
SOW	Reference *Sollwert*
STW	Control word *Steuerwort*
ZSW	Status word *Zustandswort*