

IEC 61850 related Abbreviations

Prepared by Karlheinz Schwarz

2012-07-21

Abbreviation	Description	Document
A/D	Analogue – Digital Converter	
AA	APPLICATION-ASSOCIATION	IEC 61850-7-2
AC_CLC_O	The attribute shall be optional, when the calculation type (according to data ClcMth) for this LN is Peak fundamental or RMS fundamental. The attribute shall not be available, if ClcMth is TRUE RMS.	IEC 61850-7-3 Ed2
AC_CO_O	If the controllable status class supports control, this attribute is available and an optional attribute.	IEC 61850-7-3 Ed2
AC_CO_SBO	If the controllable status class supports control and if the control model supports the values "sbo-with-normal-security" or "sbo-with-enhanced-security" or both, that attribute shall be mandatory.	IEC 61850-7-3 Ed2
AC_DLD_M	The attribute shall be present, if LN name space of this LN deviates from the LN name space referenced by IdNs of the logical device in which this LN is contained (applies to InNs in CDC LPL only).	IEC 61850-7-3 Ed2
AC_DLN_M	The attribute shall be present, if the data name space of this data deviates from the data name space referenced by either InNs of the logical node in which the data is contained or, if there is no InNs, IdNs of the logical device in which the data is contained (applies to dataNs in all CDCs only).	IEC 61850-7-3 Ed2
AC_DLNDA_M	The attribute shall be present, if CDC name space of this data deviates from the CDC name space referenced by either the dataNs of the data, the InNs of the logical node in which the data is defined or IdNs of the logical device in which the data is contained (applies to cdcNs and cdcName in all CDCs only).	IEC 61850-7-3 Ed2
AC_LN0_EX	The attribute shall be present only if the DataObject NamPlt belongs to LLN0 (applies to IdNs in CDC LPL only).	IEC 61850-7-3 Ed2
AC_LN0_M	The attribute shall be present if the DataObject NamPlt belongs to LLN0;	IEC 61850-7-3 Ed2

Abbreviation	Description	Document
	otherwise it may be optional.	
AC_NSQ_C1	One of the attributes is mandatory, if this data shall be a setting outside a setting group.	IEC 61850-7-3 Ed2
AC_NSQ_M	The attribute is mandatory, if this data shall be a setting outside a setting group.	IEC 61850-7-3 Ed2
AC_NSQ_O	The attribute is optional, if this data shall be a setting outside a setting group.	IEC 61850-7-3 Ed2
AC_RMS_M	The attribute is mandatory when the harmonics reference type is rms.	IEC 61850-7-3 Ed2
AC_SCAV	The presence of the configuration data attribute depends on the presence of i and f of the Analog Value of the data attribute to which this configuration attribute relates. For a given data object, that attribute shall be present, if both i and f are present, shall be optional if only i is present, and is not required if only f is present. NOTE If only i is present in a device without floating point capabilities, the configuration parameter may be exchanged offline.	IEC 61850-7-3 Ed2
AC_SG_C1	One of the attributes is mandatory, if this data shall be member of a setting group.	IEC 61850-7-3 Ed2
AC_SG_M	The attribute is mandatory, if this data shall be member of a setting group.	IEC 61850-7-3 Ed2
AC_SG_O	The attribute is optional, if this data shall be member of a setting group.	IEC 61850-7-3 Ed2
AC_ST	The attribute is mandatory, if the controllable status class supports status information.	IEC 61850-7-3 Ed2
ACD	Directional protection activation information	IEC 61850-7-3 Ed2
ACSE	Association Control Service Element	IEC 61850-8-1
ACSI	Abstract Communication Service Interface (abstrakte Kommunikationsdienste)	IEC 61850-7-2
ACSI	Abstract communication service interface	IEC 61850-7-1 Ed2
ACSI	abstract communication service interface	IEC 61850-7-2 Ed2
ACT	Protection activation information	IEC 61850-7-3 Ed2
ADA	Advanced Distribution Automation (fortschrittliche Verteilautomatisierung)	
ANCR	Neutral current regulator	7-4 Ed2
APC	Controllable analogue process value	IEC 61850-7-3 Ed2
API	Application Program Interface (Schnittstelle für Anwendungsprogramme)	
API	Application program interface	IEC 61850-7-1 Ed2

Abbreviation	Description	Document
ARCO	LN: Reactive power control (Blindleistungsregler)	
ARCO	Reactive power control	7-4 Ed2
ARIS	Resistor control	7-4 Ed2
ASDU	Application Service Data Unit (Anwendungsnachricht)	
ASG	Analogue Setting Common Data Class	IEC 61850-7-3
ASG	Analogue setting	IEC 61850-7-3 Ed2
ASN.1	Abstract Syntax Notation 1 (Notation 1 für darstellungsunabhängige Syntax)	IEC 61850-8-1
ASN.1	Abstract syntax notation one	IEC 61850-7-1 Ed2
ATCC	LN: Automatic Tap Changer Controller (Transformatorregler)	
ATCC	Automatic tap changer controller	7-4 Ed2
AVCO	LN: Voltage control (Spannungsregelung)	
AVCO	Voltage control	7-4 Ed2
BAC	Binary controlled analog process value	IEC 61850-7-3 Ed2
BCR	Binary counter reading	IEC 61850-7-3 Ed2
BDA	Basic DATA Attribute (i.e. not structured)	IEC 61850-6 Ed2
BER	ASN.1 Basic Encoding Rules (Codierungsregeln für Daten für ASN.1)	IEC 61850-8-1
BRCB	Buffered Report Control Block (Meldungssteuerblock mit Pufferung bei Verbindungsausfall)	
BRCB	buffered report control block	IEC 61850-7-2 Ed2
BSC	Binary controlled step position information	IEC 61850-7-3 Ed2
CALH	Alarm handling	7-4 Ed2
CB	control block	IEC 61850-7-2 Ed2
CBB	Conformance Building Block	
CC	Control Center	
CCGR	Cooling group control	7-4 Ed2
CD	Committee Draft (Komitee-Entwurf – internationaler Norm-Entwurf)	
CDC	Common Data Class (allgemeine Datenklasse)	
CDC	Common data class	IEC 61850-7-1 Ed2
CDC	common data class (IEC 61850-7-3)	IEC 61850-7-2 Ed2
CDC	common data class	IEC 61850-7-3 Ed2

Abbreviation	Description	Document
CDV	Committee draft for vote (Komitee-Entwurf zur Abstimmung – internationaler Norm-Entwurf)	
CILO	Interlocking	7-4 Ed2
CIM	Common Information Model for energy management applications	IEC 61968/70
CIM	Common Information Model for energy management applications	IEC 61850-6 Ed2
CMV	Complex measured value	IEC 61850-7-3 Ed2
Common LN	Common Logical Node	7-4 Ed2
CPOW	Point-on-wave switching	7-4 Ed2
CRC	Cyclic Redundancy Check	
CSD	Curve shape description	IEC 61850-7-3 Ed2
CSG	Curve shape setting	IEC 61850-7-3 Ed2
CSMA/CD	Carrier Sense Multiple Access/Collision Detection (Steuerung(sverfahren) für Vielfachzugriff mit Aktivitätsüberwachung und Kollisionserkennung)	
CSWI	Switch controller	7-4 Ed2
CSYN	Synchronizer controller	7-4 Ed2
CT	Current Transformer (Stromwandler)	IEC 61850-9-2
CT	Current transformer	IEC 61850-7-1 Ed2
CT	current transformer	IEC 61850-7-2 Ed2
CUG	Currency setting group	IEC 61850-7-3 Ed2
CURE	Setting curve	IEC 61850-7-3 Ed2
DA	data attribute	IEC 61850-7-2 Ed2
DAI	Instantiated Data Attribute	IEC 61850-6 Ed2
DANN	Dynamic Namespace Attribute	
DataRef	data reference	IEC 61850-7-2 Ed2
DatSet	DataSet Reference in Control Block	IEC 61850-7-2
DCCT	DER economic dispatch parameters	7-420 Ed2
DCHB	Boiler	7-420 Ed2
DCHC	CHP system controller	7-420 Ed2
dchg	data change trigger option	IEC 61850-7-2 Ed2
dchg	trigger option for data-change	IEC 61850-7-3 Ed2
DCIP	Reciprocating Engine	7-420 Ed2
DCRP	DER plant corporate characteristics at the ECP	7-420 Ed2

Abbreviation	Description	Document
DCST	Generator cost	7-420 Ed2
DCTS	Thermal storage	7-420 Ed2
DEL	Common Data Class Delta (Messwert zwischen zwei Außenleitern eines Dreileitersystems)	
DEL	Phase to phase related measured values of a three-phase system	IEC 61850-7-3 Ed2
DER	Distributed Energy Resources (distributed generation and storage), such as small turbinegenerators, photovoltaic systems, fuel cells, battery power systems, etc.	IEC 61850-7-420
DER/ADA	Architecture Project: Brief name for CEIDS project on Open Communication Architecture for Distributed Energy Resources in ADA	
DEXC	Excitation	7-420 Ed2
DFCL	Fuel cell controller	7-420 Ed2
DFLV	Fuel delivery system	7-420 Ed2
DFPM	Fuel processing module	7-420 Ed2
DGEN	DER unit generator	7-420 Ed2
DO	DATA in IEC 61850-7-2, data object type or instance, depending on the context	IEC 61850-6 Ed2
DOI	Instantiated Data Object (DATA)	IEC 61850-6 Ed2
DOPA	DER operational authority at the ECP	7-420 Ed2
DOPM	Operating mode at ECP	7-420 Ed2
DOPR	Operational characteristics at ECP	7-420 Ed2
DPC	Controllable double point	IEC 61850-7-3 Ed2
DPL	Device name plate	IEC 61850-7-3 Ed2
DPS	Double Point Status information (Doppelmeldungsstatus)	IEC 61850-7-3 Ed2
DPST	Status information at the ECP	7-420 Ed2
DPVA	Photovoltaics array characteristics	7-420 Ed2
DPVC	Photovoltaics array controller	7-420 Ed2
DPVM	Photovoltaics module ratings	7-420 Ed2
DRAT	DER generator ratings	7-420 Ed2
DRAZ	DER advanced generator ratings	7-420 Ed2
DRCC	DER supervisory control	7-420 Ed2
DRCS	DER controller status	7-420 Ed2
DRCT	DER controller characteristics	7-420 Ed2
DREX	Excitation ratings	7-420 Ed2

Abbreviation	Description	Document
DS	data set	IEC 61850-7-2 Ed2
DSCC	DER energy and/or ancillary services schedule control	7-420 Ed2
DSCH	DER energy and/or ancillary services schedule	7-420 Ed2
DSFC	Speed/Frequency Controller	7-420 Ed2
DST	Daylight saving time	IEC 61850-7-1 Ed2
DSTK	Fuel cell stack	7-420 Ed2
DTD	Document Type Definition for an XML document	
DTRC	Tracking controller	7-420 Ed2
dupd	data-update trigger option	IEC 61850-7-2 Ed2
dupd	trigger option for data-update	IEC 61850-7-3 Ed2
Ed1 / Ed2	Edition 1 / Edition 2 of an IEC Standard	
ENC	Controllable enumerated status	IEC 61850-7-3 Ed2
ENG	Enumerated status setting	IEC 61850-7-3 Ed2
ENS	Enumerated status	IEC 61850-7-3 Ed2
EPRI	Electric Power Research Institute, Palo Alto (CA, USA) (Forschungsinstitut von etwa 700 US-amerikanischen EVUs).	
FAT	Factory Acceptance Test (Fabrik-Abnahme-Test)	
FBus	Field Bus	
FC	Functional Constraint (funktionell abhängiges Daten-Attribut)	
FC	functional constraint	IEC 61850-7-2 Ed2
FC	functional constraint	IEC 61850-7-3 Ed2
FCD	Functionally Constrained Data	
FCD	functional constrained data	IEC 61850-7-2 Ed2
FCDA	functionally constrained DataAttribute	
FCDA	functional constrained data attribute	IEC 61850-7-2 Ed2
FCNT	Counter	7-4 Ed2
FCNT	Counter	7-410 Ed1
FCSD	Curve shape description	7-4 Ed2
FCSD	Curve shape description	7-410 Ed1
FDIS	Final Draft International Standard (internationaler Norm-Schluss-Entwurf)	
FFIL	Generic Filter	7-4 Ed2

Abbreviation	Description	Document
FFIL	Generic Filter	7-410 Ed1
FLIM	Control function output limitation	7-4 Ed2
FLIM	Control function output limitation	7-410 Ed1
FPID	PID regulator	7-4 Ed2
FPID	PID regulator	7-410 Ed1
FRMP	Ramp function	7-4 Ed2
FRMP	Ramp function	7-410 Ed1
FSEQ	Sequencer	7-420 Ed2
FSPT	Set-point control function	7-4 Ed2
FSPT	Set-point control function	7-410 Ed1
FXOT	Action at over threshold	7-4 Ed2
FXOT	Action at over threshold	7-410 Ed1
FXUT	Action at under threshold	7-4 Ed2
FXUT	Action at under threshold	7-410 Ed1
GAPC	Generic automatic process control	7-4 Ed2
GC_1	At least one of the attributes shall be present for a given instance of DataObject / SubDataObject.	IEC 61850-7-3 Ed2
GC_1_EXCL	At most one of the data objects shall be present for a given instance.	IEC 61850-7-3 Ed2
GC_2_n	All or none of the data attributes belonging to the same group (n) shall be present for a given instance of DataObject / SubDataObject.	IEC 61850-7-3 Ed2
GC_2_XOR_n	All or none of a group (n) shall be present. Groups are exclusive, but one group shall be present.	IEC 61850-7-3 Ed2
GC_CON_attr	A configuration data attribute shall only be present, if the (optional) specific data attribute (attr) to which this configuration relates is also present.	IEC 61850-7-3 Ed2
GGIO	Generic process I/O	7-4 Ed2
GI	general interrogation	IEC 61850-7-2 Ed2
GLOG	Generic log	7-4 Ed2
GoCB	GOOSE control block	IEC 61850-7-2 Ed2
GOMSFE	Generic Object Models for Substation and Feeder Equipment (generisches Objektmodell für Einrichtungen in Stationen und Einspeiseanlagen nach IEEE-SA TR 1550:1999)	

Abbreviation	Description	Document
GOOSE	Generic Object Oriented Substation Events (generisches Stationszustandsereignis, das per Multicast gleichzeitig an mehrere Geräte gesendet wird)	IEC 61850-7-2 IEC 61850-8-1
GOOSE	Generic oriented object system event	IEC 61850-7-1 Ed2
GOOSE	generic object oriented substation events	IEC 61850-7-2 Ed2
GPS	Global Positioning System (time source)	
GSAL	Generic security application	7-4 Ed2
GsCB	GSSE-CONTROL-BLOCK	
GsCB	GSSE control block	IEC 61850-7-2 Ed2
GSE	generic substation event	IEC 61850-7-2 Ed2
GSSE	generic substation status event	IEC 61850-7-2 Ed2
HBRG	Turbine - generator shaft bearing	7-410 Ed1
HCOM	Combinator	7-410 Ed1
HDAM	Hydropower dam	7-410 Ed1
HDEL	Harmonic value for DEL	IEC 61850-7-3 Ed2
HDLS	Dam leakage supervision	7-410 Ed1
HGPI	Gate position indicator	7-410 Ed1
HGTE	Dam gate	7-410 Ed1
HITG	Intake gate	7-410 Ed1
HJCL	Joint control	7-410 Ed1
HLKG	Leakage supervision	7-410 Ed1
HLVL	Water level indicator	7-410 Ed1
HMBR	Mechanical brake	7-410 Ed1
HMI	Human Machine Interface (Mensch-Maschine-Schnittstelle)	
HMV	Harmonic value	IEC 61850-7-3 Ed2
HNDL	Needle control	7-410 Ed1
HNHD	Water net head data	7-410 Ed1
HOTP	Dam over-topping protection	7-410 Ed1
HRES	Hydropower / water reservoir	7-410 Ed1
HSEQ	Hydropower unit sequencer	7-410 Ed1
HSPD	Speed monitoring	7-410 Ed1
HST	Histogram	IEC 61850-7-3 Ed2
HUNT	Hydropower unit	7-410 Ed1
HWCL	Water control	7-410 Ed1

Abbreviation	Description	Document
HWYE	Harmonic value for WYE (Oberschwingungswerte für WYE)	
HWYE	Harmonic value for WYE	IEC 61850-7-3 Ed2
IARC	Archiving	7-4 Ed2
ICCP	Inter-Control Center Communications Protocol (IEC 60870-6 TASE.2)	
ID	Identifizier	IEC 61850-6 Ed2
IEC	International Electrotechnical Commission	
IECSA	Project on Integrated Energy and Communications Systems Architecture	
IED	Intelligent Electronic Device (intelligentes elektronisches Gerät)	-0
IED	Intelligent Electronic Device	IEC 61850-6 Ed2
IED	Intelligent electronic device	IEC 61850-7-1 Ed2
IED	intelligent electronic device	IEC 61850-7-2 Ed2
IEEE	Institute of Electrical and Electronic Engineers (Verein der Elektro- und Elektronik-Ingenieure; New York – deutsche Sektion: VDE, Frankfurt am Main)	
IETF	Internet Engineering Task Force (Standardisierungsorganisation für Internet- Technologien)	
IHMI	Human machine interface	7-4 Ed2
INC	Controllable integer status	IEC 61850-7-3 Ed2
ING	Integer status setting	IEC 61850-7-3 Ed2
INS	Integer status	IEC 61850-7-3 Ed2
IntgPd	integrity period	
IntgPd	integrity period	IEC 61850-7-2 Ed2
IP	Internet Protocol	
IS	International Standard	
ISAF	Safety alarm function	7-4 Ed2
ISAF	Safety alarm function	7-410 Ed1
ISC	Integer controlled step position information	IEC 61850-7-3 Ed2
ITCI	Telecontrol interface	7-4 Ed2
ITMI	Telemonitoring interface	7-4 Ed2
ITPC	Teleprotection communication interfaces	7-4 Ed2
KFAN	Fan	7-4 Ed2
KFAN	Fan	7-410 Ed1
KFIL	Filter	7-4 Ed2

Abbreviation	Description	Document
KFIL	Filter	7-410 Ed1
KPMP	Pump	7-4 Ed2
KPMP	Pump	7-410 Ed1
KTNK	Tank	7-4 Ed2
KTNK	Tank	7-410 Ed1
KVLV	Valve control	7-4 Ed2
KVLV	Valve control	7-410 Ed1
LAN	Local Area Network	
LCB	log control block	IEC 61850-7-2 Ed2
LCCH	Physical Communication channel Supervision	7-4 Ed2
LD	Logical device	IEC 61850-7-1 Ed2
LD	logical device (in this part of IEC 61850, the generic logical device class is defined (genLogicalDevice))	IEC 61850-7-2 Ed2
ldInst	Instance identification of a Logical Device as part of its name	IEC 61850-6 Ed2
LGOS	GOOSE subscription	7-4 Ed2
LLN0	Logical Node 0	
LLN0	Logical node zero	IEC 61850-7-1 Ed2
LLN0	Logical node zero	7-4 Ed2
LN	Logical Node (Logischer Knoten)	
LN	Logical node	IEC 61850-7-1 Ed2
LN	logical node (in this part of IEC 61850, the generic logical node class is defined (genLogicalNode))	IEC 61850-7-2 Ed2
lnInst	Instance number of a Logical Node as part of its name	IEC 61850-6 Ed2
LPHD	Logical Node Physical Device	
LPHD	Logical node physical device	IEC 61850-7-1 Ed2
LPHD	Physical device information	7-4 Ed2
LPL	Logical node name plate	IEC 61850-7-3 Ed2
LSVS	Sampled value subscription	7-4 Ed2
LTIM	Time management	7-4 Ed2
LTMS	Time master supervision	7-4 Ed2
LTRK	Service tracking	7-4 Ed2
M	Attribute is mandatory. Attribute shall exist on any CDC type instance.	IEC 61850-7-3 Ed2

Abbreviation	Description	Document
M/O/C	Mandatory/Optional/Conditional (pflicht/wahlrei/bedingt)	IEC 61850
mag	Magnitude value of data attribute	IEC 61850-7-3
MAP	Manufacturing Automation Protocols	
MC	multicast	IEC 61850-7-2 Ed2
MCAA	multicast application association	
MCAA	multicast application association	IEC 61850-7-2 Ed2
MENV	Environmental information	7-4 Ed2
MENV	Environmental information	7-410 Ed1
MENV	Emissions measurements	7-420 Ed2
MFLK	Flicker Measurement Name	7-4 Ed2
MFLW	Flow measurements	7-420 Ed2
MFUL	Fuel characteristics	7-420 Ed2
MHAI	Harmonics or interharmonics	7-4 Ed2
MHAN	Non phase related harmonics or interharmonics	7-4 Ed2
MHET	Heat measured values	7-420 Ed2
MHYD	Hydrological information	7-4 Ed2
MHYD	Hydrological information	7-410 Ed1
MMDC	DC measurement	7-4 Ed2
MMDC	DC measurement	7-410 Ed1
MMET	Meteorological information	7-4 Ed2
MMET	Meteorological information	7-410 Ed1
MMS	Manufacturing Message Specification – ISO 9506 (Nachrichtenformate für Fertigungszwecke)	IEC 61850-8-1
MMS	Manufacturing message specification	IEC 61850-7-1 Ed2
MMS	manufacturing message specification (ISO 9506)	IEC 61850-7-2 Ed2
MMTN	Metering	7-4 Ed2
MMTR	LN: Metering Unit (Zählwert-Einheit)	
MMTR	Metering	7-4 Ed2
MMXN	Non phase related Measurement	7-4 Ed2
MMXU	Logical Node: Measurement Unit of a 3 phase electrical A.C. system (Messwert-Einheit)	IEC 61850-7-4
MMXU	Measurement	7-4 Ed2
MPRS	Pressure measurements	7-420 Ed2

Abbreviation	Description	Document
MSQI	Sequence and imbalance	7-4 Ed2
MSTA	Metering Statistics	7-4 Ed2
MSV	Multicast Sampled Value	IEC 61850-6 Ed2
MSVCB	Multicast Sampled Value Control Block	
MSVCB	multicast sampled value control block	IEC 61850-7-2 Ed2
MsvID	ID for MSV (Multicast Sampled Value)	IEC 61850-6 Ed2
MU	Merging Unit (Sammeleinheit)	
MU	Merging Unit	
MV	Measured Value Common Data Class	
MV	Measured value	IEC 61850-7-3 Ed2
MX	Measured analogue value (Functional Constraint für Messwert)	
NIST SGIP	U.S. National Institute of Standards and Technology – Smart Grid Interoperability Panel	
NP	New work-item Proposal (Normvorschlag)	
O	Attribute is optional. Attribute may or may not exist on any CDC type instance.	IEC 61850-7-3 Ed2
ORG	Object reference setting	IEC 61850-7-3 Ed2
OSI	Open Systems Interconnection	
PDIF	Differential	7-4 Ed2
PDIR	Direction comparison	7-4 Ed2
PDIS	LN: Distance protection (Distanzschutz)	
PDIS	Distance	7-4 Ed2
PDOP	Directional overpower	7-4 Ed2
PDU	Protocol Data Unit (Nachricht)	
PDU	protocol data unit	IEC 61850-7-2 Ed2
PDUP	Directional underpower	7-4 Ed2
PFRC	Rate of change of frequency	7-4 Ed2
PHAR	Harmonic restraint	7-4 Ed2
PHD	Physical Device	
PHD	Physical device	IEC 61850-7-1 Ed2
PHIZ	Ground detector	7-4 Ed2
PICOM	Piece of Information for Communication	
PICOM	Piece of communication	IEC 61850-7-1 Ed2
PICS	Protocol Implementation Conformance Statement	

Abbreviation	Description	Document
PICS	protocol implementation conformance statement	IEC 61850-7-2 Ed2
PICS_SUBST	Attribute is mandatory, if substitution is supported (for substitution, see IEC 61850-7-2), otherwise forbidden.	IEC 61850-7-3 Ed2
PIOC	Instantaneous overcurrent	7-4 Ed2
PIXIT	Protocol Implementation Extra Information	
PIXIT	protocol Implementation extra information	IEC 61850-7-2 Ed2
PMRI	Motor restart inhibition	7-4 Ed2
PMSS	Motor starting time supervision	7-4 Ed2
POPF	Over power factor	7-4 Ed2
PPAM	Phase angle measuring	7-4 Ed2
PRTR	Rotor protection	7-4 Ed2
PRTR	Rotor protection	7-410 Ed1
PSCH	Protection scheme	7-4 Ed2
PSDE	Sensitive directional earthfault	7-4 Ed2
PT100	Temperature Sensor (Platinum resistor)	
PTEF	Transient earth fault	7-4 Ed2
PTHF	Tyristor protection	7-4 Ed2
PTHF	Thyristor protection	7-410 Ed1
PTOC	LN: Time overcurrent protection (Maximalstromzeitschutz)	
PTOC	Time overcurrent	7-4 Ed2
PTOF	LN: Overfrequency protection (Überfrequenzschutz)	
PTOF	Overfrequency	7-4 Ed2
PTOV	LN: Overvoltage protection (Überspannungsschutz)	
PTOV	Overvoltage	7-4 Ed2
PTRC	Protection trip conditioning	7-4 Ed2
PTTR	Thermal overload	7-4 Ed2
PTUC	Undercurrent	7-4 Ed2
PTUF	Underfrequency	7-4 Ed2
PTUV	Undervoltage	7-4 Ed2
PUPF	Underpower factor	7-4 Ed2
PVOC	Voltage controlled time overcurrent	7-4 Ed2
PVPH	Volts per Hz	7-4 Ed2
PZSU	Zero speed or underspeed	7-4 Ed2

Abbreviation	Description	Document
qchg	quality change trigger option	
qchg	quality change trigger option	IEC 61850-7-2 Ed2
qchg	trigger option for quality-change	IEC 61850-7-3 Ed2
QFVR	Frequency Variation	7-4 Ed2
QITR	Current Transient	7-4 Ed2
QIUB	Current Unbalance Variation	7-4 Ed2
QVTR	Voltage Transien	7-4 Ed2
QVUB	Voltage Unbalance Variation	7-4 Ed2
QVVR	Voltage Variation	7-4 Ed2
RADR	Disturbance recorder channel analogue	7-4 Ed2
RBDR	Disturbance recorder channel binary	7-4 Ed2
RBRF	Breaker failure	7-4 Ed2
RCB	Report Control Block	IEC 61850-7-2
RCB	Report Control Block	IEC 61850-6 Ed2
RDIR	Directional element	7-4 Ed2
RDRE	Disturbance recorder function	7-4 Ed2
RDRS	Disturbance record handling	7-4 Ed2
RFC	Request for Comments	
RFLO	Fault locator	7-4 Ed2
RMXU	Differential measurements	7-4 Ed2
RPSB	LN: Power swing detection/blocking (Pendelsperre)	IEC 61850-7-4
RPSB	Power swing detection/blocking	7-4 Ed2
RptEna	Report Enable of Report Control Block	IEC 61850-7-3
RREC	LN: Autoreclosing (Wiedereinschaltautomatik (AWE))	
RREC	Autoreclosing	7-4 Ed2
RSYN	Synchronism-check	7-4 Ed2
RSYN	synchronising or synchro-check device	7-410 Ed1
RTU	Remote Terminal Unit (Fernwirkgerät)	
SAP	Service Access Point. The Service Access Point represents a logical construct through which a peer selects a communication protocol or access to an applications. The selection of the entire seven layers of SAPs represents a communication profile	
SARC	Monitoring and diagnostics for arcs	7-4 Ed2
SAS	Substation Automation System	

Abbreviation	Description	Document
SAS	Substation automation system	IEC 61850-7-1 Ed2
SAV	Sampled value	IEC 61850-7-3 Ed2
SBO	Select Before Operate (Anwahl vor Ausführung)	
SBO	select before operate	IEC 61850-7-2 Ed2
SCADA	Supervisory Control And Data Acquisition (Bedienen und Beobachten)	
SCBR	Circuit breaker supervision	7-4 Ed2
SCL	System Configuration description Language (Sprache für die Konfiguration von Geräten und System)	IEC 61850-6
SCL	System Configuration description Language	IEC 61850-6 Ed2
SCL	substation configuration language (IEC 61850-6)	IEC 61850-7-2 Ed2
SCSM	Specific Communication Service Mapping (spezifische Abbildung von Kommunikationsdiensten)	IEC 61850-8-1
SCSM	Specific communication service mapping	IEC 61850-7-1 Ed2
SCSM	specific communication service mapping (defined in IEC 61850-8-x and IEC 61850-9-x)	IEC 61850-7-2 Ed2
SDI	Instantiated Sub-DATA; middle name part of a structured DATA name	IEC 61850-6 Ed2
SDO	Sub-DATA within a DOType, referencing another DOType	IEC 61850-6 Ed2
SEC	Security violation counting	IEC 61850-7-3 Ed2
SED	System Exchange Description	IEC 61850-6 Ed2
SEQ	Sequence	IEC 61850-7-3 Ed2
Server	Gerät, das einen Dienst-Auftrag empfängt und ausführt; Gerät, in dem die Logischen Geräte, Logischen Knoten, Datenobjekte und so weiter realisiert sind.	
SG	setting group	
SGCB	SETTING-GROUP-CONTROL-BLOCK	
SGCB	setting group control block	IEC 61850-7-2 Ed2
SGIP	NIST Smart Grid Interoperability Panel	
SIMG	Insulation medium supervision (gas)	7-4 Ed2
SIML	Insulation medium supervision (liquid)	7-4 Ed2
SLTC	Tap changer Supervision	7-4 Ed2
SMV	Sample values	IEC 61850-7-1 Ed2

Abbreviation	Description	Document
SMV, SV	Sampled (Measured) Values	IEC 61850-7-2 IEC 61850-9-2
SNTP	Simple Network Time Protocol	
SoE	Sequence of Events (Sequenz von Ereignissen)	
SoE	Sequence of events	IEC 61850-7-1 Ed2
SoE	sequence-of-events	IEC 61850-7-2 Ed2
SOPM	Supervision of Operating Mechanism	7-4 Ed2
SPC	Controllable single point	IEC 61850-7-3 Ed2
SPDC	Monitoring and diagnostics for partial discharges	7-4 Ed2
SPG	Single point setting	IEC 61850-7-3 Ed2
SPS	Single Point Status Common Data Class	IEC 61850-7-3
SPS	Single point status	IEC 61850-7-3 Ed2
SPTR	Power Transformer Supervision	7-4 Ed2
SSWI	Circuit Switch Supervision	7-4 Ed2
STMP	Temperature Supervisory Logical Node	IEC 61850-7-4
STMP	Temperature supervision	7-4 Ed2
STMP	temperature supervision	7-410 Ed1
STMP	Temperature measurements	7-420 Ed2
SUT	System Under Test (zu testendes Gerät)	
SV	sampled value	IEC 61850-7-2 Ed2
SVBR	Vibration supervision	7-4 Ed2
SVBR	vibration supervision	7-410 Ed1
SVBR	Vibration conditions	7-420 Ed2
SVC	sampled value control	IEC 61850-7-2 Ed2
TANG	Angle	7-4 Ed2
TANG	Angle sensor	7-410 Ed1
TASE.2	Telecontrol Application Service Element 2; IEC 60870-6-TASE.2 (synonym ICCP – Kommunikationsnorm zur Kommunikation zwischen Netzleitstellen)	
TAXD	Axial displacement	7-4 Ed2
TAXD	Axial displacement sensor	7-410 Ed1
TCP	Transmission Control Protocol (Transportprotokoll des Internets)	
TCP/IP	Transmission Control Protocol / Internet Protocol (Transport- und Netzwerkprotokoll des Internets)	

Abbreviation	Description	Document
TCTR	LN: Current transformer (Stromwandler)	
TCTR	Current transformer	7-4 Ed2
TDST	Distance	7-4 Ed2
TDST	Distance sensor	7-410 Ed1
TFLW	Liquid flow	7-4 Ed2
TFLW	Flow sensor	7-410 Ed1
TFRQ	Frequency	7-4 Ed2
TFRQ	Frequency sensor	7-410 Ed1
TGSN	Generic sensor	7-4 Ed2
THUM	Humidity	7-4 Ed2
THUM	Humidity sensor	7-410 Ed1
TLEV	Level sensor	7-410 Ed1
TLVL	LMedia level	7-4 Ed2
TMGF	Magnetic field	7-4 Ed2
TMGF	Magnetic field sensor	7-410 Ed1
TMVM	Movement senso	7-4 Ed2
TMVM	Movement sensor	7-410 Ed1
TP	TWO-PARTY	
TP	two party	IEC 61850-7-2 Ed2
TPAA	TWO-PARTY-APPLICATION-ASSOCIATION	
TPAA	two party application association	IEC 61850-7-2 Ed2
TPOS	Position indicator	7-4 Ed2
TPOS	Position indicator	7-410 Ed1
TPRS	Pressure sensor	7-4 Ed2
TPRS	Pressure sensor	7-410 Ed1
TrgOp	Trigger Option (one out of a list)	IEC 61850-7-2
TrgOp	trigger option	IEC 61850-7-2 Ed2
TrgOp	trigger option	IEC 61850-7-3 Ed2
TrgOps	List of Trigger Options (dchg, qchg, dupd, gi, intgpd ...)	IEC 61850-7-2
TRTN	Rotation transmitter	7-4 Ed2
TRTN	Rotation transmitter	7-410 Ed1
TSG	Time setting group	IEC 61850-7-3 Ed2
TSND	Sound pressure sensor	7-4 Ed2
TSND	Sound pressure sensor	7-410 Ed1
TTMP	Temperature sensor	7-4 Ed2

Abbreviation	Description	Document
TTMP	Temperature sensor	7-410 Ed1
TTNS	Mechanical tension / stress	7-4 Ed2
TTNS	Mechanical tension /stress sensor	7-410 Ed1
TVBR	Vibration sensor	7-4 Ed2
TVBR	Vibration sensor	7-410 Ed1
TVTR	LN: Voltage transformer (Spannungswandler)	
TVTR	Voltage transformer	7-4 Ed2
TWPH	Water acidity	7-4 Ed2
TWPH	Water pH sensor	7-410 Ed1
UCA ®	Utility Communications Architecture (common term) – (Trademark of EPRI)	
UCA 2.0	Utility Communications Architecture version 2 – IEEE TR 1550 (NOT a standard!)	
UCAlug	UCA international users group	IEC 61850-7-1 Ed2
UCA™1)	utility communication architecture	IEC 61850-7-2 Ed2
UML	Unified Modelling Language (Objektorientierte Modellierungssprache)	
UML	Unified Modelling Language according to http://www.omg.org/uml	IEC 61850-6 Ed2
URCB	unbuffered report control block	IEC 61850-7-2 Ed2
URI	Universal Resource Identifier	
URI	Universal Resource Identifier	IEC 61850-6 Ed2
USVCB	Unicast Sampled Value Control Block	
USVCB	unicast sampled value control block	IEC 61850-7-2 Ed2
UsvID	ID for USV (Unicast Sampled Value)	IEC 61850-6 Ed2
UTC	Co-ordinated Universal Time (koordinierte Weltzeit)	
UTC	Universal time coordinated	IEC 61850-7-1 Ed2
UTC	coordinated universal time	IEC 61850-7-2 Ed2
VID	VLAN Identifier	
VLAN	Virtual Local Area Network	
VMD	Virtual manufacturing device	IEC 61850-7-1 Ed2
VPP	Virtual Power Plant	
VSG	Visible string setting	IEC 61850-7-3 Ed2
VSS	Visible string status	IEC 61850-7-3 Ed2

Abbreviation	Description	Document
VT	Voltage Transformer (Spannungswandler)	IEC 61850-9-2
VT	Voltage transformer	IEC 61850-7-1 Ed2
VT	voltage transformer	IEC 61850-7-2 Ed2
WALG	Wind turbine analogue log information	61400-25-2 Ed1
WALM	Wind power plant alarm information	61400-25-2 Ed1
WAPC	Wind power plant active power control information	61400-25-2 Ed1
WCNV	Wind turbine converter information	61400-25-2 Ed1
WGEN	Wind turbine generator information	61400-25-2 Ed1
WMET	Wind power plant meteorological information	61400-25-2 Ed1
WNAC	Wind turbine nacelle information	61400-25-2 Ed1
WREP	Wind turbine report information	61400-25-2 Ed1
WROT	Wind turbine rotor information	61400-25-2 Ed1
WRPC	Wind power plant reactive power control information	61400-25-2 Ed1
WSLG	Wind turbine state log information	61400-25-2 Ed1
WTOW	Wind turbine tower information	61400-25-2 Ed1
WTRF	Wind turbine transformer information	61400-25-2 Ed1
WTRM	Wind turbine transmission information	61400-25-2 Ed1
WTUR	Wind turbine general information	61400-25-2 Ed1
WYAW	Wind turbine yawing information	61400-25-2 Ed1
WYE	Common Data Class (Messwerte zwischen Außenleiter und Bezugserde eines Drei-Leiter-Systems)	
WYE	Phase to ground/neutral related measured values of a three-phase system	IEC 61850-7-3 Ed2
XCBR	Logical Node: Circuit breaker (Leistungsschalter)	IEC 61850-7-4
XCBR	Circuit breaker	7-4 Ed2
XFUS	Fuse	7-420 Ed2
XML	eXtensible Mark-up Language (Erweiterte Auszeichnungssprache)	
XML	Extensible Markup Language	IEC 61850-6 Ed2
XSWI	LN: Circuit Switch (Trennschalter (auch Erdungs-, Last-Schalter))	IEC 61850-7-4
XSWI	Circuit switch	7-4 Ed2
YEFN	Earth fault neutralizer (Petersen coil)	7-4 Ed2
YLTC	LN: Tap changer (Stufenschalter)	

Abbreviation	Description	Document
YLTC	Tap changer	7-4 Ed2
YPSH	Power shunt	7-4 Ed2
YPTR	LN: Power transformer (Leistungstransformator)	
YPTR	Power transformer	7-4 Ed2
ZAXN	Auxiliary network	7-4 Ed2
ZBAT	Battery	7-4 Ed2
ZBAT	Battery systems	7-420 Ed2
ZBSH	Bushing	7-4 Ed2
ZBTC	Battery charger	7-420 Ed2
ZCAB	Power cable	7-4 Ed2
ZCAP	Capacitor bank	7-4 Ed2
ZCON	Converter	7-4 Ed2
ZGEN	Generator	7-4 Ed2
ZGIL	Gas insulated line	7-4 Ed2
ZINV	Inverter	7-420 Ed2
ZLIN	Power overhead line	7-4 Ed2
ZMOT	Motor	7-4 Ed2
ZRCT	Rectifier	7-420 Ed2
ZREA	Reactor	7-4 Ed2
ZRES	Resistor	7-4 Ed2
ZRES	Neutral resistor	7-410 Ed1
ZRRC	Rotating reactive component	7-4 Ed2
ZSAR	Surge arrester	7-4 Ed2
ZSCR	Semi-conductor controlled rectifier	7-4 Ed2
ZSCR	Semiconductor rectifier controller	7-410 Ed1
ZSMC	Synchronous machine	7-4 Ed2
ZSMC	Synchronous machine	7-410 Ed1
ZTCF	Thyristor controlled frequency converter	7-4 Ed2
ZTCR	Thyristor controlled reactive component	7-4 Ed2