

TEST REGISTER FOR IEC 61850

July, 2018

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1 SCL ENGINEERING TOOLS

MANUFACTURER	COUNTRY	ENGINEERING TOOL	FUNCTIONS	DATE
ABB	Switzerland	PCM600 Protection and Control IED Manager Version 2.7	IED Configuration Tool: block 11, 12, 13, 15	2016-07
ABB	Switzerland	IET600 Integrated Engineering Tool Version 5.3	System Configuration Tool: block 21, 22, 23, 24, 25, 26, 27, 28	2016-02

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2 CLIENT DEVICES EDITION 1

MANUFACTURER	COUNTRY	CLIENT EDITION 1	PROTOCOL	DATE
Siemens	Germany	SPPA-T3000 Control System Software version 07.2.11.11	IEC 61850-8-1 block 1, 2+, 5, 12abcd, 13, 14	2016-06
CG Automation Solutions	USA	ePAQ-9425 Multifunction Gateway Software version: Link 80-01000-001Q	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13	2015-11
Mitsubishi Electric	Germany	Q24DHCCPU-V "C-RTU" Controller Software Version: IEC 61850 Mastr V22828	IEC 61850-8-1 block 1, 5, 6, 12abcd, 13, 14	2015-11
Emerson Process Management	USA	Emerson Ovation DCS Software version 3.5.1	IEC 61850-8-1 block 1, 5, 6, 12ad, 13	2015-08
INEA	Slovenia	ME-RTU Version 90.34	IEC 61850-8-1 block 1, 5, 6, 12abcd, 13	2015-03
Invensys Systems	USA	Foxboro Evo SCD6000 Version : SY-1101207_B	IEC 61850-8-1 block 1, 5, 6, 12abcd, 13	2015-02
SEONDO Electric	Korea	SDE-SA IEC 61850 Client Version 1.0.0.0	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 12abcd, 13, 14	2014-07
ENTEC Electric & Electronic	Korea	Argos-61850 Version 1.0	IEC 61850-8-1 block 1, 2, 2+, 4, 4+, 5, 6, 12abcd, 13, 14	2014-06
NR Electric	China	PCS-9700 SCADA/HMI Workstation Version R1 (2014-04-27)	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 12abcd, 13, 14	2014-05
Siemens	Germany	SICAM CMIC Firmware version ET83 Rev. 01	IEC 61850-8-1 block 1, 2, 2+, 5, 12abcd, 13	2014-04

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MANUFACTURER	COUNTRY	CLIENT EDITION 1	PROTOCOL	DATE
GABO	Korea	GBPAS Version 3.0	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 12abcd, 13, 14	2013-10
Smarter Grid Solutions	United Kingdom	Sgs commshub with IEC 61850 Driver version 2.2.0	IEC 61850-8-1 block 1, 2, 3, 5, 6, 12abcd, 13	2013-09
Survalent Technology Corporation	Canada	Survalent Advanced Automation Management System, v1.13.0821	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 12abcd, 13	2013-08
ABB	Finland	MicroSCADA pro Software: SYS 600 9.3	IEC 61850-8-1 block 1, 2, 2+, 4, 4+, 5, 6, 12abcd, 13, 14	2013-07
ARC Informatique	France	CimWay for PcVue version 11.0.2021.2290	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13	2013-07
Hyundai Heavy Industries	Korea	HiPAS 61850 Client HMI version 1.0	IEC 61850-8-1 block 1, 2, 2+, 4, 4+, 5, 6, 12abcd, 13, 14	2013-06
Siemens	Germany	SICAM 230 Version 7.00 SP0	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 12abcd, 13, 14	2013-06
YPP Corporation	Korea	YPP Partnersys with IEC 61850 Driver version 1.0	IEC 61850-8-1 block 1, 2, 2+, 4, 4+, 5, 6, 12abcd, 13, 14	2013-06
AnyGate	Korea	PowerScene Software version 1.0.0	IEC 61850-8-1 block 1, 2, 2+, 4, 4+, 5, 6, 12abcd, 13, 14	2013-05
Elipse Software	Brasil	Elipse Power with IEC 61850 Driver version 2.00.03	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 12abcd, 13, 14	2013-03
Invensys Operations Management	USA	SCD5200 SY-1101205_F	IEC 61850-8-1 block 1, 5, 6, 12abcd, 13	2013-03
Yousung Instrument & Electric	Korea	YSSA-Gateway Software: 1.0	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 12abcd, 13, 14	2013-03
Brodersen	Denmark	Brodersen RTU32 Firmware 1.52	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 12abcd, 13, 14	2013-02
Cooper Power Systems	Canada	SMP 16 / CP-PM Version 6.2C374104095	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2013-02

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MANUFACTURER	COUNTRY	CLIENT EDITION 1	PROTOCOL	DATE
Schweitzer Engineering Laboratories (SEL)	USA	SEL-2241 Axion Real-Time Automation Controller, Version R122	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13	2013-02
Schweitzer Engineering Laboratories (SEL)	USA	SEL-3350 Real-Time Automation Controller, Version R122	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13	2013-02
Schweitzer Engineering Laboratories (SEL)	USA	SEL-3530-4 Real-Time Automation Controller, Version R122	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13	2013-02
ABB	Germany	RTU560 Hardware: RTU560 Software: Release 10.6	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2012-11
YOUHO Electric	Korea	YOUHO IEC61850 Client Software: v1.0	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 12abcd, 13, 14	2012-08
KEPCO-KDN	Korea	KDN-STAS Software 1.0	IEC 61850-8-1 block 1, 2+, 4+, 5, 6, 12abcd, 13, 14	2012-07

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3 CLIENT DEVICES EDITION 2

MANUFACTURER	COUNTRY	CLIENT EDITION 2	PROTOCOL	DATE
Siemens AG	Germany	SICAM A8000 CP-8050 with CI-8520 module	IEC 61850-8-1 block 1, 2,4, 5, 6, 12acd, 13, 14	2018-05
Larsen & Toubro	India	iVisionmax Industrial Software Platform Software version: 10.1	IEC 61850-8-1 block 1, 2,3 5, 6, 12abcd, 14, 15	2018-04
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3555 Real-Time Automation Controller Software version: SEL-3555-R139-V1-Z001001-D20170628	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2017-11
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3560 Real-Time Automation Controller Software version: SEL-3560-R139-V1-Z001001-D20170628	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2017-11
Schweitzer Engineering Laboratories, Inc.	USA	SEL-2241 Real-Time Automation Controller Software version: SEL-2241-V1-Z001001-Z001001-D20170628	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2017-10
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3532 Real-Time Automation Controller Software version: SEL-3532-4-R139-V1-Z001001-D20170628	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2017-10
Survalent Technology Corporation	Canada	Survalent SCADA Software version: 17.3 1.17.0828.1	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 12abcd	2017-09
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3530 Real-Time Automation Controller Software version: SEL-3530-R139-V1-Z001001-D201706	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2017-09
Qualitrol Company LLC	USA	QTMS Transformer Monitor System Software version: 2.8.3	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 13	2017-09
GE Grid Solutions	France	DS Agile Gateway Software version: DS Agile V7	IEC 61850-8-1 block 1, 2, 5, 6, 12acd, 13	2017-09

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MANUFACTURER	COUNTRY	CLIENT EDITION 2	PROTOCOL	DATE
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3530-4 Real-Time Automation Controller Software version: SEL-3530-4-R139-V1-Z001001-D2017	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2017-09
EFACEC	Portugal	UC 500 Station Server Software version: UC 500 9.0.0	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 12abcd, 13	2017-07
Synergy Systems & Solutions	India	HUSKY RTU 6049-E70 Remote Terminal Unit Software version: 5.1	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 12abcd, 13, 14	2017-06
GE Grid Solutions	France	DS Agile C264 Modular Substation / Bay Controller Software version: DS Agile V7	IEC 61850-8-1 block 1, 2, 5, 6, 9a, 12acd, 13	2017-06
Siemens	Germany	SICAM SCC Human Machine Interface Software version 9.00.00	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 12acd, 13, 14, 15	2017-01
Siemens	Germany	SICAM A8000 CP-8000 modular device for telecontrol and automation applications Software version: ET85 Rev. 03.04	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 12acd, 13, 14	2017-01
Siemens	Germany	SICAM AK 3 Automation Component with modules CP-2016 and CP-2019 Software version: ET25 Rev. 03.04	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 12acd, 13, 14	2017-01
CG Automation	Ireland	XCell RTU Remote Telemetry Unit Software version: 61850MNB v2.01	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13	2016-12
Schneider Electric	France	EcoSUI PACiS local HMI Software version: 2.1.16272.50	IEC 61850-8-1 block 1, 2, 5, 6, 12acd, 13, 14	2016-10

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MANUFACTURER	COUNTRY	CLIENT EDITION 2	PROTOCOL	DATE
iGrid T&D	Spain	iGComms Substation Automation Server Application software version: 2.104.0 IEC 61850 software version: 3.21.0	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 12abcd, 13, 14	2016-10
Schneider Electric	France	GTW Gateway Software for PACiS Solution Software version: PACiS V6_1.402.100.100 12	IEC 61850-8-1 block 1, 2, 5, 6, 12acd, 13	2016-10
Siemens	Germany	SICAM AK 3 Automation Component with modules CP-2016, CP-2019 and SM-2558 Software version: ETA5 Rev. 03.04	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 12acd, 13, 14	2016-09
Beijing Sifang Automation	China	CSC-2000 (V2) Substation Automation System 61850 version V3.57.41	IEC 61850-8-1 block 1, 2+, 3, 4, 5, 6, 9, 12abcd, 13, 14, 15	2016-06
GE Power Management	Spain	GE POWER GATEWAY (CCU1000 ENHANCED) Software version v1.1.1	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2016-05
Bertel	Italy	BRTU-2000 RTU with protocol gateway functionalities Software version 1.0.0	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2016-03
TOSHIBA	Japan	GSC100 Station Computer Software version C	IEC 61850-8-1 block 1, 4, 5, 6, 12abcd	2016-03
Honeywell International	Switzerland	Experion Process Knowledge System Software version R430.4	IEC 61850-8-1 block 1, 5, 6, 12abcd, 13, 14, 15	2016-01
ABB	Finland	MicroSCADA Pro SYS600 Power automation system Software version 9.4	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 9, 12abcd, 13, 14, 15	2015-12

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MANUFACTURER	COUNTRY	CLIENT EDITION 2	PROTOCOL	DATE
Enilit	Lithuania	Enilit RTU Remote Terminal Unit Software version : CMS 4.0	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9, 12abcd, 13, 14	2015-11
NR Electric	China	PCS-9799 Station Manager Software version : 3.50	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9, 12abcd, 13, 14	2015-09
NR Electric	China	PCS-9700 SCADA/HMI Workstation Software version : R2.0	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9, 12abcd, 13, 14	2015-09
ATS	Vietnam	ATS@Station	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13, 14	2015-09
Siemens	Germany	SICAM PAS/PQS Software version: 8.03	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 12abcd, 13, 14	2015-04

4 SERVER DEVICES EDITION 1

MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
JSC VNIIR	Russian Federation	RITM 02-T4 (PITM 02-T4) Transformer prot	IEC 61850-8-1 block 1, 2,2+,4,4+ 5, 6, 9a, 9b, 12ad, 13,14	2018-04
SELESOFT	Italy	MP48 E+++ Remote Terminal Unit	IEC 61850-8-1 block 1, 4, 5, 6, 12abcd, 13	2018-02
ABB SACE	Italy	Ekip Touch with Ekip Com IEC61850 Protection and control Relay Ekip Com IEC61850 Software version: 03.02 Ekip Com IEC61850 Hardware version: 00.00 Ekip Com IEC61850 S/N: 748000140520W001	IEC 61850-8-1 block 1, 2, 5, 9a, 9b, 12c, 13	2018-01
ZIV GRID Automation S.L.	Spain	IRF-A Directional Overcurrent MF Relay Software version: 0.8.0 Hardware version: RF-A-2142A00000000AA10	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12abcd, 13, 14	2017-11

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
ZIV GRID Automation S.L.	Spain	IRL-F Dir Overcurrent Protection Software version: 0.7.1 Hardware version: IRL-F-1BCAAABAA0A	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12abcd, 13, 14	2017-09
Schneider Electric	France	Easergy MiCOM P243 Motor Protection Relay Software version: D1 Hardware version: M	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2017-04
Mitsubishi Electric Corporation	Japan	MFP-H2SB Overcurrent protection relay Software version: PGKK0308 Hardware version: 652PSA	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12a, 13, 14	2017-04
ELESTER-PKP Sp. z o.o.	Poland	CZAT 7 CPU with PSU, DOU, DIOU, DIU Software version: 1.0 Hardware version: V1.0	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12ab, 13, 14	2017-04
Nanjing Intelligent Apparatus Co., Ltd.	China	PA620-L4 Line Current Differential Relay Software version: V3.0	IEC 61850-8-1 block 1, 2, 2+,3, 4, 4+, 5, 6, 12ad, 13, 14	2017-01
ElectroPribor	Russia	PQI96 (ЦМК96), PQI120M (ЦМК120C), PQI120MP (ЦМК120CP) Power Quality Instrument Firmware version: 1.9.3-iec81	IEC 61850-8-1 block 1, 13	2016-12
Mitsubishi Electric	Japan	MRD-HA Biased Differential Relay; IEC 61850 software version: PGKH81; Relay software version: PGKH82	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2016-10
GE Power Conversion	France	HPCi High Performance Controller 61850 Firmware: V3.2.2	IEC 61850-8-1 block 1, 2, 5, 6, 9a, 12abcd, 13	2016-09
Schneider Electric	France	MiCOM P543 Current Differential Protection Relay Software version: D2 Hardware version: M	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2016-09
Grid Solutions	UK	MiCOM P40 Agile P14DZ, P14DB, P14DG, P14DH, P14DL, P14NB, P14NZ, P94VB, P94VP, P94VR Software version: 56B	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2016-07
Mitsubishi Electric	Japan	CFP1-A41D1 Feeder protection relay Software version: PGKK0304	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12ac, 13, 14	2016-03
OJSC NIPOM	Russia	P0301 Line protection relay Software version: 16.02.1	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12a, 13, 14	2016-02

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Mitsubishi Electric	Germany	Q24DHCCPU-V Controller Software version IEC61850 Slave V20589	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2015-12
Siemens	UK	Reyrolle 7SR12 Argus 7SR11 Argus Firmware V04.00	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2015-12
Schweitzer Engineering Laboratories	USA	SEL-651RA Recloser control Software version R100	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2015-11
Alstom Grid	UK	MiCOM P40 Agile P44T Software version 02F	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9abcd, 12ad, 13, 14	2015-11
ABB	Finland	REF611, REB611, REM611, REU611 Software version 2.0	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2015-11
Research Centre Bresler	Russia	TOR 200 L Firmware version v2.15_T	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ab, 13, 14	2015-11
Research Centre Bresler	Russia	TOR 300 AUV TOR 300 KSZ Firmware version v2.15_T	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ab, 13, 14	2015-11
CG Automation Solutions	USA	ePAQ-9425 Gateway ePAQ-9410 Gateway ePAQ-9420 Gateway Software version Link 80-01000-001P	IEC 61850-8-1 block 1, 2, 2+, 5, 12ab, 13	2015-11
NPP Bresler	Russia	Bresler-0107.511 Software version 3	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12abcd, 13, 14	2015-11
ABB	Finland	REF620, REM620, RET620 Software version 2.1	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2015-09
Engineering Centre "Energoservice"	Russia	ENIP-2 Multifunction power meter Software version 2.0.0.6	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 9ab, 12ad, 13	2015-07
OOO-MP3	Russia	MP3-1 L3 Software version 7.002	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12ad, 13, 14	2015-07
EKRA	Russia	BE2704 Differential bus protection Software version 562	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12a, 13, 14	2015-07
Controles	Uruguay	RTU194 Bay controller Software version RTUQM V4.32	IEC 61850-8-1 block 1, 2, 5, 6, 6+, 9ab, 12abcd, 13	2015-06
Nanjing SAC Power Grid Automation	China	DRL6600U Software version 5.02.02.05	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2015-06
Nanjing SAC Power Grid Automation	China	PSL 603U Software version 5.02.02.08g	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2015-06

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Nanjing SAC Power Grid Automation	China	PSL 6602U Software version 5.02.02.08g	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2015-06
Nanjing SAC Power Grid Automation	China	PSL 6603U Software version 5.02.02.08g	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2015-06
Schneider Electric	Finland	VAMP57 Feeder Manager Software version: 19.104	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 9ab, 12abcd, 13, 14	2015-04
ABB	Finland	REF615, RED615, REG615, REM615, RET615, REU615, REV615 Product version: 5.0 FP1 Software version: 5.1	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14,	2015-04
ZIV GRID Automation	Spain	RTV Automatic voltage regulator Firmware version 7.6S	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14	2015-03
Invensys Systems	USA	Foxboro Evo SCD6000 Version : SY-1101207_B	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12abcd, 13	2015-02
Phoenix Contact	Germany	AXL BK SAS Firmware version: 1.10	IEC 61850-8-1 block 1, 2, 5, 6, 12a, 13	2014-11
Toshiba Corporation	Japan	GRL200 IEC 61850 Software version: G2M850-01-E Main software version: GS2RLIM2-02-01	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2014-11
Schweitzer Engineering Laboratories (SEL)	USA	SEL-787-3 Transformer Protection Relay Version R100	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2014-10
SAC	Spain	DM9300-TE Multifunction meter Software version: 202	IEC 61850-8-1 block 1, 2, 5, 6, 13	2014-10
Siemens	Germany	SIPROTEC V4 7VU683 Firmware V04.70 EN100 Module V04.23	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 6+, 9ab, 12acd, 13, 14	2014-09
SAC	Spain	saTECH BCU 152 Software version v1.6 S/N 1401294701	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ab, 13	2014-07
Smarter Grid Solutions	United Kingdom	Brodersen RTU32 Software version 7.0 Hardware version UCN-26 IOA/221B0110.D	IEC 61850-8-1 block 1, 2, 5, 12a, 13	2014-07

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
DF Núcleo	Spain	Sherpa R5000 Hardware version B10 revA Software version 5.10	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13	2014-06
Alstom Grid	United Kingdom	MiCOM P40 Agile P747 Numerical Busbar Protection Software version 02 Hardware version K	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2014-06
Alstom Grid	France	GISWatch Proxy: IEC61850 Proxy for GIS monitoring Software version V1.6	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 13	2014-05
Electro Industries / GaugeTech	USA	Shark 200 Multifunction Meter with INP300S Firmware 3.35	IEC 61850-8-1 block 1, 2, 5, 6, 13	2014-05
Siemens	Germany	SIPROTEC 7SC805 Merging Unit Firmware V0.50 EN100 Communication Module V01.00	IEC 61850-8-1 block 9ab, 13	2014-05
ZIV GRID Automation	Spain	ZLV-G Distance protection Firmware version 7.4R	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14	2014-05
CYG SUNRI	China	PRS-7367 Overcurrent Protection Feeder & Management Device Firmware version 3.10	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2014-04
CYG SUNRI	China	PRS-7395 Smart Terminal & Merging Unit Firmware version 2.3.2.01	IEC 61850-8-1 block 9ab, 13	2014-04
Megger	USA	SMRT410 Smart protective relay test system Firmware version: 1.260	IEC 61850-8-1 block 9ab, 13	2014-04
COL Giovanni Paolo	Italy	BU 9000 Bay Unit Software version 2.1	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2014-03
Megger	USA	SMRT36 Smart protective relay test system Firmware version: 1.260	IEC 61850-8-1 block 9ab, 13	2014-03
Secheron	Switzerland	SEPCOS Control and Protection Relay Software version: 1.14	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2014-03
Alstom Grid	United Kingdom	MiCOM P40 Agile P747 Software version 03 Hardware version K	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2014-02
GE Power Conversion	United Kingdom	T5502 RTU Software version 4.15 revision 165	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 13	2014-02
Alstom Grid	United Kingdom	P60 Agile P163 IEC61850 Software version:FW1.1.1	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12ad, 13	2014-01

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Stucke Elektronik	Germany	SYMAP-Compact+ IEC61850 Software version: FW1.11.0 Hardware version: v1-2.0	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12ad, 13	2014-01
ABB	Finland	REF615, RED615, REM615, RET615, REU615, REV615 Firmware version 5.0	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2013-12
Alstom Grid	United Kingdom	MiCOM P40 Agile P341 Software version 72 Hardware version P	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2013-12
Schweitzer Engineering Laboratories (SEL)	USA	SEL-651R Recloser Control Version R404	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2013-12
Siemens	Germany	SIPROTEC V4 7SJ66 Firmware V04.00	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 6+, 9ab, 12acd, 13, 14	2013-12
Schneider Electric – Vamp	Finland	VAMP300 SW version: 10.135	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 9ab, 12abcd, 13, 14	2013-11
ZIV GRID Automation	Spain	IDV with option A6 Differential protection relay Firmware version 7.3R	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 6+, 9ab, 12abcd, 13, 14	2013-11
ABB	Finland	RIO600 Version 1.2 LECM FW version: LECM_01.02	IEC 61850-8-1 block 9ab, 13	2013-10
Alstom Grid	France	C264 Modular Substation Controller 61850 software version V5.1.0	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2013-10
Alstom Grid	France	DS Agile GTW Firmware: 7.2.0	IEC 61850-8-1 block 1, 2, 5, 6, 12acd, 13	2013-10
Schweitzer Engineering Laboratories (SEL)	USA	SEL-411 Advanced Line Differential Protection and Control System Version R311	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2013-10
Schweitzer Engineering Laboratories (SEL)	USA	SEL-487B Bus Differential and Breaker Failure Relay Version R307	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2013-10
Alstom Grid	United Kingdom	MiCOMho P40 Agile P643 Transformer protection Relay Software version 4H Hardware version K	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2013-09

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Alstom Grid	United Kingdom	P40 Agile P14DZ, P14DG, P14DG, P14DL, P14NB, P14NZ Software version 50H Hardware version A	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2013-09
GE Power Conversion	United Kingdom	T5500 RTU Software version 4.07 revision 157	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 13	2013-09
Toshiba Corporation	Japan	GRB200 Main software: GS2RBCM1-01-00 IEC 61850 firmware: G2M850-01-E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2013-09
Toshiba Corporation	Japan	GRE130 Main software: GS1EM1-03-C IEC 61850 firmware: MVM850-01-B	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12ab, 13	2013-09
Toshiba Corporation	Japan	GRT200 Main software: GS2RTIM-01-00 IEC 61850 firmware: G2M850-01-E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2013-09
ZIV GRID Automation	Spain	IRX 61850 interface version 6.5B	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12c, 13, 14	2013-09
Bilfinger Mauell	Germany	ME 4012 PA-N V02.10.10.00	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9ab, 12abcd, 13	2013-08
Schneider Electric – Vamp	Finland	VAMP210, VAMP230, VAMP245, VAMP255, VAMP260, VAMP265, VAMP265M SW version: 10.131	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 9ab, 12abcd, 13, 14	2013-07
Schneider Electric – Vamp	Finland	VAMP257, VAMP259 SW version: 10.131	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 9ab, 12abcd, 13, 14	2013-07
Schneider Electric – Vamp	Finland	VAMP50, VAMP52, VAMP55, VAMP59 SW version: 10.131	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 9ab, 12abcd, 13, 14	2013-07
Schneider Electric	France	MiCOM P437 Software version P437-631-222 Hardware Suffix K	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 13, 14	2013-06
Schweitzer Engineering Laboratories (SEL)	USA	SEL-710-5 Motor Protection Relay Version R100	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2013-06
3AO-MP3	Russia	MP3-3 L2, MP3-3 AUV, MP3-3 D, MP3- 3 DZSH, MP3-3 DZT, MP3-3 L1 SW version 2.015	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 6+, 9ab, 12abd, 13, 14	2013-05
Schweitzer Engineering Laboratories (SEL)	USA	SEL-2241 AxionReal-Time Automation Controller Version R122	IEC 61850-8-1 block 9ab, 13	2013-05

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Schweitzer Engineering Laboratories (SEL)	USA	SEL-3505 Real-Time Automation Controller Version R122	IEC 61850-8-1 block 9ab, 13	2013-05
Schweitzer Engineering Laboratories (SEL)	USA	SEL-3530 Real-Time Automation Controller Version R122	IEC 61850-8-1 block 9ab, 13	2013-05
Schweitzer Engineering Laboratories (SEL)	USA	SEL-3530-4 Real-Time Automation Controller Version R122	IEC 61850-8-1 block 9ab, 13	2013-05
Schweitzer Engineering Laboratories (SEL)	USA	SEL-735 Power Quality and Revenue Meter Version R106	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2013-05
Mitsubishi Electric	Japan	MDT-H1SA Protection Relay s/w version: M-CPU JQ51 C R-CPU JQ52 A C-CPU HL06 A E-CPU HL08 C Schema No. 639PSA	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12a, 13, 14	2013-04
Mitsubishi Electric	Japan	MFP-H1SA Protection Relay s/w version: M-CPU JQ41 C R-CPU JQ42 A C-CPU HL06 A E-CPU HL08 C Schema No. 637PSA	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12a, 13, 14	2013-04
Schweitzer Engineering Laboratories (SEL)	USA	SEL-421 Protection, Automation and Control System Version R313	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2013-04
ABB	Sweden	REL650, REB650, REC650, REG650, REQ650, RET650 Firmware version 1.3.0.17 Hardware version 1MRK 008512-AD	IEC 61850-8-1 block 1, 2, 3, 4, 5, 6, 9ab, 12ad, 13, 14	2013-03
Schneider Electric	France	MiCOM C264 Firmware: B8.16G	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2013-03
Schneider Electric	France	MiCOM P746 Software version A0B Hardware Suffix K	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2013-03

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Schweitzer Engineering Laboratories (SEL)	USA	SEL-311C Transmission Protection System Version R503	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2013-03
Toshiba Corporation	Japan	GRE110 Over-current and earth fault protection and control Main software: GS1EM1-01-E IEC 61850 firmware: MVM850-01-A	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12ab, 13	2013-03
Toshiba Corporation	Japan	GRE140 Directional overcurrent and earth fault protection and control Main software: GS1EM1-04-B IEC 61850 firmware: MVM850-01-A	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12ab, 13	2013-03
ABB	Sweden	TEC Server Monitoring and protection device, Application revision 2.3.0 Communication revision 2.2.0	IEC 61850-8-1 block 1, 2, 5, 13	2013-02
Alstom Grid	United Kingdom	MiCOMho P443 Fast Multifunctional Distance Protection Relay Software version 71C Hardware version M	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2013-02
GE Digital Energy	Canada	UR N60, UR B30, UR B90, UR C30, UR C60, UR C70, UR D30, UR D60, UR F35, UR F60, UR G30, UR G60, UR L30, UR L60, UR L90, UR M60, UR T35, UR T60 IEC 61850 Firmware version: 7.10	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2013-02
Schweitzer Engineering Laboratories (SEL)	USA	SEL-2411 Programmable Automation Controller Version R310	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2013-02
Schweitzer Engineering Laboratories (SEL)	USA	SEL-451 Protection, Automation and Bay Control System Version R311	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2013-02
Schweitzer Engineering Laboratories (SEL)	USA	SEL-487E Transformer Protection Relay Version R306	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2013-02
Schweitzer Engineering Laboratories (SEL)	USA	SEL-849 Motor Management Relay Version R100	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2013-02

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Siemens	Germany	SICAM P855 7KG855 Power Monitoring Device and Power Quality Recorder Firmware version V2.10	IEC 61850-8-1 block 1, 2, 5, 6, 13, 14	2013-01
AMETEK	USA	SERnet Sequence-of-Event Recorder IEC 61850 version 1.0.0	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 13	2012-12
AMETEK	USA	TR-61850 Multi-Function Recorder IEC 61850 version 1.0.0	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 13	2012-12
OMICRON electronics	Austria	CMC 850 Test Set Firmware: TU 2.41.3998	IEC 61850-8-1 block 9ab, 13	2012-12
Sanion	Korea	STC-K110 Hardware Version 1.0 Firmware Version 1.0 Software Version 1.0	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2012-12
Sanion	Korea	STP-K110 Hardware Version 1.0 Firmware Version 1.0 Software Version 1.0	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2012-12
Stucke Elektronik	Germany	SYMAP-Compact+ Digital Protection Relay Firmware v1.0-1.6.0 Firmware IEC61850: v1.0	IEC 61850-8-1 block 1, 2+, 5, 9ab, 12a, 13	2012-12
Siemens	Germany	7XV5674 SICAM AI Unit Firmware V01.00	IEC 61850-8-1 block 1, 2, 6+, 9a, 13	2012-11
Siemens	Germany	SICAM230 IEC61850 Server Standalone Version 1.0	IEC 61850-8-1 block 1, 2, 5, 13	2012-11
Siemens	United Kingdom	Reyrolle 7SR224 Directional Overcurrent Protection Relay Firmware Version: 7b EN100 V04.08	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12ac, 13, 14	2012-10
Siemens	United Kingdom	Reyrolle 7SR23 High Impedance Protection Relay Firmware Version: 7b EN100 V04.08	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12ac, 13, 14	2012-10
Siemens	United Kingdom	Reyrolle 7SR24 Transformer Protection Relay Firmware Version: 7b EN100 V04.08	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12ac, 13, 14	2012-10

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Siemens	Germany	SIPROTEC V4 7ST61 and 7ST63 Protection for AC Traction Power Supply Firmware V04.60 EN100 V04.20	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2012-10
Toshiba	Japan	GRD200 Main software: GS2RDIM1-01-00 IEC 61850 firmware: G2M850-1-E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2012-10
Toshiba	Japan	GRL100 and GRZ100 Main software: GS2RLIM1-03-00 IEC 61850 firmware: G2M850-1-E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2012-10
ENTEC Electric	Korea	ETR500 Control & Protection Device MPU Ver 1.1 DSP Ver 3.12 CPU Ver 1.00	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2012-09
RoCon	Bulgaria	RFI 401 D3, RBP 401 D3, RLI 401 D3, RMI 401 D3, RTI 401 D3, RTU 401 D3 Firmware version 1.030	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12abd, 13	2012-09
Siemens	Germany	7XV5673 SICAM I/O Unit, Firmware V02.01	IEC 61850-8-1 block 1, 2, 6+, 9ab, 13	2012-09
Siemens	Germany	SIPROTEC V4 7SC80 Feeder Automation Controller Firmware V04.01 EN100 V04.20	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2012-09
Alstom Grid	United Kingdom	MiCOM P545 Current Differential Protection Relay Version 71C	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2012-08
Mikronika	Poland	SO-52v11 Firmware version: 1.4 Substation controller	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12ab, 13, 14	2012-08
Mikronika	Poland	SO-55 Firmware version: 1.4 Communication unit	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12ab, 13, 14	2012-08
Toshiba	Japan	GBU200 Main software: GS2BUIM1-01-02 IEC61850 firmware: G2M85001E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2012-08
Yousung Instrument & Electric	Korea	YSDPI-9800 Multifunctional Relay Hw Rev 1.01 Sw Rev 1.01	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2012-08

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Yousung Instrument & Electric	Korea	YSVR-2110A Voltage Regulation Relay Hw Rev 1.00 Sw Rev 1.03	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2012-08
Thytronic	Italy	PRON NA21 Version 1.30	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2012-07
Thytronic	Italy	PRON NC20 Version 1.30	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2012-07
Thytronic	Italy	PRON NM20 Version 1.30	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2012-07
Thytronic	Italy	PRON NT10 Version 1.30	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2012-07
Thytronic	Italy	PRON NV021 Version 1.30	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2012-07
Thytronic	Italy	PRON NV10P Version 1.30	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2012-07
Thytronic	Italy	PRON NVA100 Version 1.30	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2012-07
Ashida Electronics Pvt	India	Type: ADR 233B Hardware: V3.0 Software: V02.04 / 2012/5	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13	2012-06
Schweitzer Engineering Laboratories (SEL)	USA	SEL-651R Recloser Control Version R400	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2012-06
LS Industrial Systems	Korea	GIPAM-DL Multifunctional protection, measurement and control device Communication Software v1.02 04.18	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2012-05
RTK Instruments	England	P725B Substation Annunciator Firmware GPC 2.19.12 DCCP 2.12.0	IEC 61850-8-1 block 1, 2+, 6, 9ab, 12a, 13	2012-05
Schweitzer Engineering Laboratories (SEL)	USA	SEL-487V Protection Automation Control Version R104	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2012-05
Alstom Grid	France	ALSTOM DCS 4.6 Gateway GTW Firmware: 6.2.16 Hardware: Advantech PC OS: Windows XP	IEC 61850-8-1 block 1, 2, 5, 6, 12acd, 13	2012-04
Beijing Sifang Automation	China	CSC-103 line protection V1.00 CE1 0100 8926 2011.04 D5CC BDE8	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 12a, 13, 14	2012-04

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Beijing Sifang Automation	China	CSC-121 breaker protection IED V1.00 CE1 0100 8926 2011.04 044B 26E2	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 12a, 13, 14	2012-04
Schweitzer Engineering Laboratories (SEL)	USA	SEL-351S Protection System Version R511	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2012-04
Siemens	Germany	SIPROTEC V4 7SD80 Line Differential Protection Firmware V04.60 EN100 V04.08	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2012-04
Siemens	Germany	SIPROTEC V4 7RW80 Voltage and Frequency Protection Firmware V04.61 EN100 V04.08	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2012-04
Toshiba Corporation	Japan	GRL100 & GRZ100 Software: GS2LM1-02-C IEC 61850 firmware: G2M850-01-C	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12d, 13, 14	2012-04
Toshiba Corporation	Japan	GRZ200 & GRL200 Software: GS2ZM1-01-C IEC 61850 firmware: G2M850-01-C	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12d, 13, 14	2012-04
Ingeteam Power Technology	Spain	INGEPAC EF Protection and Control device HW revision D SW revision 1.0.3.0	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12abcd, 13, 14	2012-03
Invensys Operations Management	USA	SCD5200 SY-1101205_F	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12abcd, 13	2012-03
Schneider Electric	Germany	MiCOM P139 Feeder Management and Bay Control Unit Version -650, -230	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2012-03
Siemens	Germany	SIPROTEC V5 7SL87 Differential and Distance Protection Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6+, 9ab, 12acd, 13, 14	2012-03
Siemens	Germany	SIPROTEC V5 7VK87 Circuit-Breaker Management Device Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6+, 9ab, 12acd, 13, 14	2012-03

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Siemens	Germany	SIPROTEC V5 6MD85 Bay Controller Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6+, 9ab, 12acd, 13, 14	2012-03
Siemens	Germany	SIPROTEC V5 7SJ86 Overcurrent Protection for Line Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6+, 9ab, 12acd, 13, 14	2012-03
Siemens	Germany	SIPROTEC V5 7SA86 Distance Protection Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6+, 9ab, 12acd, 13, 14	2012-03
Siemens	Germany	SIPROTEC V5 7SD87 Differential Protection Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6+, 9ab, 12acd, 13, 14	2012-03
Stucke Elektronik	Germany	SYMAP-BC Digital Protection Relay Firmware CU: 1.10 Firmware IEC61850: 1.4	IEC 61850-8-1 block 1, 2+, 5, 9ab, 12a, 13	2012-03
ABB	Sweden	REB650, REC650, REG650, REL650, REQ650 and RET650 Software 1.2.0.B2 Hardware 1MRK001535-22	IEC 61850-8-1 block 1, 2, 3, 4, 5, 6, 9ab, 12ad, 13, 14	2012-02
Mitsubishi Electric	Japan	MBP-H1A Bus Bar Protection Relay s/w version: MM-CPU PGJP21 E MR-CPU PGJP22 G FE-CPU PGJP28 B h/w version: SCHEME No. 472PTA	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12a, 13, 14	2012-02
Mitsubishi Electric	Japan	MCD-HA Line Protection Relay s/w version: MM-CPU PGJP31 F MR-CPU PGJP32 D h/w version: SCHEME No. 502PNA	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12ad, 13, 14	2012-02
Stucke Elektronik	Germany	SYMAP-Y Digital Protection Relay Firmware CU: 1.10 Firmware IEC61850: 1.4	IEC 61850-8-1 block 1, 2+, 5, 9ab, 12a, 13	2012-01
Schweitzer Engineering Laboratories (SEL)	USA	SEL-2440 Discrete Programmable Automation Controller Version R207	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd	2011-12
Schweitzer Engineering Laboratories (SEL)	USA	SEL-411L Advanced Line Differential Protection, Automation, and Control System Version R103	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-12

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Siemens	United Kingdom	Reyrolle 7SR210 Non-Directional Overcurrent Protection Firmware Version: 7a EN100 V04.08	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2011-12
Siemens	United Kingdom	Reyrolle 7SR220 Directional Overcurrent Protection Firmware Version: 7a EN100 V04.08	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2011-12
CG Global	United Kingdom	SmartBay Firmware v3.1 Hardware v2.3	IEC61850-8-1 block 1, 2+, 5, 6, 12a, 13	2011-10
NEOPIS	Korea	PROMET5300 DSP Version 1.02 Network Version 1.0 Hardware Version 1.0r3	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2011-10
Schneider Electric	Canada	ION8800 meter Firmware version v340	IEC 61850-8-1 block 1, 2, 5, 6, 12a, 13	2011-10
Schweitzer Engineering Laboratories (SEL)	USA	SEL-421 Protection, Automation, and Control System, Version R308	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd	2011-10
VAMP	Finland	VAMP 210, 230, 245, 255, 260, 265, 265M SW version: 10.87 Serial Number: 034851	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12abcd, 13	2011-10
VAMP	Finland	VAMP 257, 259 SW version: 10.87 Serial Number: 034852	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12abcd, 13	2011-10
VAMP	Finland	VAMP 50, 51, 52, 55 SW version: 10.87 Serial Number: 003549	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12abcd, 13	2011-10
A. Eberle	Germany	PQI-D Power Quality Interface Firmware 1.44.01	IEC 61850-8-1 block 1, 2, 5, 13, 14	2011-09
Dranetz-BMI	USA	Encore 61000 SW version: 3.3 HW version: 61000PQ	IEC 61850-8-1 block 1, 2, 13	2011-09
Hyundai Heavy Industries Co.	Korea	HiMAP-CCU SW ver 1.00 HW ver 1.00	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2011-09
Hyundai Heavy Industries Co.	Korea	HiMAP-GCU SW ver 1.00 HW ver 1.00	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2011-09

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Hyundai Heavy Industries Co.	Korea	HiMAP-TCU SW ver 1.00 HW ver 1.00	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2011-09
Infoware	Hungary	MAB3 Substation Remote Terminal Unit Version 5.3001.1	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-09
Schweitzer Engineering Laboratories (SEL)	USA	SEL-700G Generator Protection Relay Version R104	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-09
Thytronic	Italy	PRON NA80 Version 1.2	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2011-09
Microelettrica Scientifica	Italy	FMR-R 850 Version 2.19.1	IEC 61850-8-1 block 1, 2, 5, 6, 13	2011-08
NR Electric Co.	China	PCS-9705 Bay Control Unit, Hardware version PCS-9000-HW-V1.06 Software version PCS-9000-SW-V2.12	IEC 61850-8-1 block 1, 2, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2011-08
Schweitzer Engineering Laboratories (SEL)	USA	SEL-311C Transmission Protection System Version R599	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-08
Schweitzer Engineering Laboratories (SEL)	USA	SEL-311L Line Current Differential Protection and Automation System Host firmware R413 Interface firmware R110	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd	2011-08
Schweitzer Engineering Laboratories (SEL)	USA	SEL-351A Protection System, Version R599	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-08
Schweitzer Engineering Laboratories (SEL)	USA	SEL-351S Protection System, Version R599	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-08
Schweitzer Engineering Laboratories (SEL)	USA	SEL-451-5 Protection, Automation, and Bay Control System Version R307	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd	2011-08
Siemens	Germany	SENTRON T 7KG966 Multifunctional Transducer Firmware V02.00.04	IEC 61850-8-1 block 1, 2, 5, 6+, 13	2011-08

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Sanion	South Korea	SLP-K120 T/L Protection IED Hardware version 1.2 Firmware version 1.0 Software version 1.0	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2011-07
Schweitzer Engineering Laboratories (SEL)	USA	SEL-2411 Programmable Automation Controller Version R307	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd	2011-07
Schweitzer Engineering Laboratories (SEL)	USA	SEL-487E Transformer Protection Relay Version R300	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-07
Iskra Sistemi	Slovenia	NEO 3000 FPC 680 Hardware version: FPC 680-F03 Software version: 1.0	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12ad, 13	2011-06
Schneider Electric	Canada	ION8650 meter Firmware version v400	IEC 61850-8-1 block 1, 2, 5, 6, 12a, 13	2011-06
Schweitzer Engineering Laboratories (SEL)	USA	SEL-487B Bus Differential and Breaker Failure Relay Version R300	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-06
Schweitzer Engineering Laboratories (SEL)	USA	SEL-710 Motor Protection Relay Version R406	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-06
Schweitzer Engineering Laboratories (SEL)	USA	SEL-751 Feeder Protection Relay Version R100	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-06
Schweitzer Engineering Laboratories (SEL)	USA	SEL-787 Transformer Protection Relay Version R206	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-06
Woodward Kempen	Germany	MCA4 Protection and Control Relay Version 2.0.h	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12d, 13	2011-06
Alstom Grid	United Kingdom	MiCOM P145 Feeder Management Relay, Version 46A	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2011-05
Hyosung	Korea	Hyosung NeoProPAC-GBC, Firmware version 1.0, H/W version 1.2	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2011-05

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Hyosung	Korea	Hyosung NeoProPAC-TBU, Firmware version 1.0, H/W version 0.1	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2011-05
Hyosung	Korea	Hyosung NeoProPAC-TPU, Firmware version 1.0, H/W version 0.1	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2011-05
Schweitzer Engineering Laboratories (SEL)	USA	SEL-387E Current Differential and Voltage Protection Relay Host firmware R704 Interface firmware R109	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd	2011-05
Mitsubishi Electric Corporation	Japan	Biased Differential Relay MRD-HA MM-CPU = PGJA21 C MR-CPU = PGJA22 L	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12a, 13, 14	2011-04
Mitsubishi Electric Corporation	Japan	Circuit Breaker and Overcurrent Protection Relay MFR-H1SA M-CPU = HL01 B, R-CPU = HL02 B L-CPU = HL05, C-CPU = HL06 A E-CPU = HL08 A	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12a, 13, 14	2011-04
Mitsubishi Electric Corporation	Japan	High Impedance Differential Relay MBP-H3SA, M-CPU = JC06, R-CPU = JC07 L-CPU = HL05, C-CPU = HL06 A E-CPU = HL08 A	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12a, 13, 14	2011-04
Schweitzer Engineering Laboratories (SEL)	USA	SEL-751A Feeder Protection Relay Firmware R410	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2011-04
SystemCORP Embedded Technology Pty	Australia	WebCAN Substation Control and Monitoring System Firmware v1.36.00	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2011-04
Schneider Electric	France	Sepam series 60 version 7.1 with ACE850 version 1.2	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12ad, 13, 14	2011-03
Bharat Heavy Electricals Ltd. (BHEL)	India	BHEL-MU Merging Unit Firmware K0.01	IEC 61850-8-1 block 9ab, 13	2011-02
Vizimax	Canada	RightWON System RWU010000 RWZ0A0000 V 1.0.4 Firmware version 1.4.1	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12abcd, 13, 14	2011-01
Dynamic Ratings	Australia	DR-E3, Version SO 1.0.2, BOOT 1.1.2	IEC 61850-8-1 block 1, 2, 5, 6, 12a, 13	2010-12

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KEPCO KDN	Korea	Kipro-F Main Feeder Protection IED, Version 1.0	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12ad, 13, 14	2010-12
KEPCO KDN	Korea	Kipro-T Main Transformer Protection IED, Version 1.0	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2010-12
Schneider Electric	Canada	ION7650, ION7550 and Siemens 9510, 9610 meter, Firmware v360	IEC 61850-8-1 block 1, 2, 5, 6, 12a, 13	2010-12
Basler Electric	USA	BE1-11 Application Version 2.04.00 Style number BE1-11-F5A1N5H1N0E00	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12a, 13, 14	2010-11
Vitzrotech	Korea	ViPAM7000 Multifunction Protection & Control Device Firmware version: 1.0	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2010-10
ZIV P+C	Spain	DBN Version SO 2.85 BOOT 3.8 IRV-97EA; IEC 5.46R	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12c, 13, 14	2010-10
ABB Automation	Germany	AC 800M CI868 Communication Interface for IEC 61850, version: 5.0.2000.20	IEC 61850-8-1 block 9ab	2010-09
Nanjing Nari-Relays Electric	China	PCS-931 Line Differential Relay, Hardware version PCS-900-HW-V1.06 Software version PCS-900-SW-V2.12	IEC 61850-8-1 block 1, 2, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2010-08
Toshiba Corporation	Japan	GRB150 Main software: GSPBP1-01-A IEC61850 firmware: GPM850-01-E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12c, 13, 14	2010-07
Toshiba Corporation	Japan	GRD110 Main software: GSPDM1-01-A IEC61850 firmware: GPM850-01-E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12c, 13, 14	2010-07
Toshiba Corporation	Japan	GRD130 Main software: GSPDM1-03-A IEC61850 firmware: GPM850-01-E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12c, 13, 14	2010-07
Yousung Instrument & Electric	Korea	YSDPI9800 Multifunction Protection Version 1.0	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12ad, 13, 14	2010-07
Mitsubishi	Japan	Current Differential Relay MCD-HA Version: MM-CPU = PGHN01 A MR-CPU = PGJA02 A	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12a, 13, 14	2010-05
Mitsubishi	Japan	Distance Relay MDT-HA Version: MM-CPU = PGHN11 A MR-CPU = PGHN12 F	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12a, 13, 14	2010-05

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Nanjing Nari-Relays Electric	China	PCS-902 Line Differential Relay, version 1.01	IEC 61850-8-1 block 1, 2, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2010-05
Protecta Electronics	Hungary	EP+: DTRV, DTVA and DTIVA; Version 2.8	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12acd, 13	2010-05
Sprecher Automation	Austria	SPRECON-E-P94-DD6 Software version: 8.15	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2010-05
Remsdaq	United Kingdom	Callistonx IEC61850 Server v1.3.10	IEC 61850-8-1 block 1, 2+, 5, 6, 9a, 12abcd	2010-04
ABB	Sweden	REB670, REC670, RED670, REG670, REL670, RET670 Software version 1.5.0.1 Hardware version 1MRK001535-19	IEC 61850-8-1 block 1, 2, 3, 4, 5, 6, 9ab, 12ad, 13, 14	2010-02
Kalki Communication Technologies	India	Sync2000 protocol gateway IEC61850_V2.14.1	IEC 61850-8-1 block 1, 2+, 5, 6, 9a, 12abcd, 13	2010-02
Advanced Control Systems	Serbia	PCT210 IEC-MMS-GOOSE v1.0.0	IEC 61850-8-1 block 1, 2+, 5, 9ab, 13, 14	2009-12
Toshiba Corporation	Japan	GRB100 Main software: GSPBM1-01-A IEC61850 firmware: GPM850-01-E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12c, 13, 14	2009-12
Toshiba Corporation	Japan	GRD140 Main software: GSPDM1-04-A IEC61850 firmware: GPM850-01-E	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12c, 13, 14	2009-12
RTDS Technologies Inc.	Canada	GTNET – GSE Firmware version GTNET–GSE v4.3	IEC 61850-8-1 block 9ab	2009-11
VITZROTECH	Korea	ViPAM5000 Multifunction Protection Firmware version: 1.0	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12ad, 13, 14	2009-10
Schneider Electric	France	Sepam series 40 version 7.0 with ACE850 version 1.0	IEC 61850-8-1 block 1, 2, 4, 5, 6, 12ad, 13, 14	2009-09
Schneider Electric	France	Sepam series 80 version 6.0 with ACE850 version 1.0	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12ad, 13, 14	2009-09
GE Energy	Canada	D25 Multifunction IED Gen 4; B097-1 IEC 61850 Server and GSE Agent Ver 3.00; MMS Library Ver 5.00	IEC 61850-8-1 block 1, 2, 6, 9ab, 12abcd, 13, 14	2009-08
LS Industrial Systems	Korea	X GIPAM Multifunctional Protection & Control Device IEC61850 EXT. v1.0	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2009-08

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ABB	Finland	IED 630 Software version 1.0.RC16 Hardware version SBFNABACBBBZANNAXA	IEC 61850-8-1 block 1, 2, 3, 4, 5, 6, 9ab, 12ad, 13, 14	2009-07
ABB	Finland	REF615, RED615, RET615 and REM615 Software version: 2.0.3 Hardware revision: C	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12ad, 13, 14	2009-07
NARI Group Corporation	China	NS3500 UHV Measuring and Control Device Firmware version V6.121	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12d, 13, 14	2009-07
NARI Group Corporation	China	NS3600 Protection, Supervisory and Control Equipment Firmware version V6.14	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12d, 13, 14	2009-07
NARI Group Corporation	China	NZD68 Bay Control Unit Firmware version V3.12	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12d, 13, 14	2009-07
NARI Group Corporation	China	NZD7 Protection and Measuring and Control Device Firmware version V3.14	IEC 61850-8-1 block 1, 2, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2009-07
P&B Engineering	United Kingdom	P&B SuperVision Series MotorVision MVD Motor Protection Relay Firmware V2.058	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12abcd, 13, 14	2009-07
Guodian Nanjing Automation	China	PST1200U Firmware version 5.02.03.002	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12ab, 13, 14	2009-06
SHR Automation	China	UDC-501 Bay Control Unit Firmware version R2.03	IEC 61850-8-1 block 1, 2, 3, 4+, 5, 6, 9ab, 12acd, 13, 14	2009-06
SHR Automation	China	UDM-502 Merging Unit Firmware version R2.05	IEC 61850-8-1 block 9ab	2009-06
SHR Automation	China	UDW-501 Arc-Suppression Coil Control Unit Firmware version R2.02	IEC 61850-8-1 block 9ab	2009-06
Siemens	Germany	SIPROTEC 7SK80 Motor protection Firmware V04.61 EN100 V04.03	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2009-06
Siemens	Germany	SIPROTEC 7UT612 Differential protection Firmware V04.60 EN100 V04.03	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2009-06

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Siemens	Germany	SIPROTEC 7UT68 Differential protection Firmware V04.60 EN100 V04.03	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2009-06
Siemens A.G. PTD	Germany	SIPROTEC 7SJ80 Overcurrent protection Firmware V04.61 EN100 V04.03	IEC 61850-8-1 block 1, 2+, 4, 5, 6+, 9ab, 12acd, 13, 14	2009-06
ABB	Sweden	IED 650 Software version 1.0.RC10 Hardware version 1MRK006500-AA	IEC 61850-8-1 block 1, 2, 3, 4, 5, 6, 9ab, 12ad, 13, 14	2009-05
Camille Bauer	Switzerland	SINEAX CAM Measurement unit and generic I/O Firmware version 2.14	IEC 61850-8-1 block 1, 2, 5, 13	2009-05
Efacec	Portugal	BCU 500 Firmware version: 1.0	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12a, 13	2009-05
Efacec	Portugal	TPU S420 Version: TPU S420-Ed1-S-V7.3	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ab, 13	2009-05
AREVA Energietechnik	Germany	MS 3000 Monitoring System Firmware version 2.36	IEC 61850-8-1 block 1, 2, 5, 12a, 13	2009-04
Areva T&D	United Kingdom	AREVA MiCOM P141 Feeder Management Relay Version 42C	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2009-04
Areva T&D	United Kingdom	AREVA MiCOM P143 Feeder Management Relay Firmware version 42C	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2009-04
Areva T&D	Germany	AREVA P632 Transformator-Differential Protection Device Version -611 -204	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2009-04
P&B Engineering	United Kingdom	P&B SuperVision Series FeederVision FVD Feeder Protection Relay Firmware V2.022	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12abcd, 13, 14	2009-04
VAMP	Finland	VAMP 257 Feeder Manager SW version: 10.19 HW version: 3C7CAM	IEC 61850-8-1 block 1, 2+, 5, 6, 9a, 12a, 13	2009-04
HYOSUNG Corporation	Korea	BCU-100 Bay Controller for High Voltage Gas Insulated Switchgear Firmware version: 2.0 Hardware version: 1.0	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13	2008-12

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HYOSUNG Corporation	Korea	GCU-2000 Bay Controller for MV Gas Insulated Switchgear, Firmware: RS 1922 Hardware: GCU-2000-00	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13	2008-12
HYOSUNG Corporation	Korea	T-LU Local Unit for Transformer Firmware version: 3.0 Hardware version: 1.0	IEC 61850-8-1 block 1, 2+, 5, 6, 13	2008-12
Mitsubishi	Japan	MR4010E Bay Control and Monitoring With firmware version: com506_00000005	IEC 61850-8-1 block 1, 2, 4+, 6, 9ab, 12ad, 13, 14	2008-11
Areva T&D	United Kingdom	Areva MiCOM P645 Transformer Protection Relay Software Version 01A Hardware Version K	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2008-10
Areva T&D	United Kingdom	Areva MiCOM P746 Numerical Busbar Protection Software Version 01A Hardware Version K	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2008-10
ABB AB	Sweden	IED 670 1.1r10 Software version 1.4_77m_19 Hardware version 1MRK001535-14	IEC 61850-8-1 block 1, 2, 3, 4, 5, 6, 9ab, 12ad, 13, 14	2008-09
Areva T&D	United Kingdom	Areva MiCOM P841 Multifunction Line Terminal Protection Firmware version 45A	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2008-09
Yantai DongFang Electronics Information Industry Co.Ltd.	China	DF1725IED firmware: DF1000-V6.00-1725IED-V3.00 and IEC61850-V3.00	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12acd, 13, 14	2008-09
Siemens	Austria	AK1703 ACP HW/FW-Revision CP-2010/MC25:BC2-010--.26 / 14.01, HW/FW-Revision SM-2556/ET03:BC2-556--.10/06.02	IEC 61850-8-1 block 1, 2, 5, 9ab, 12acd, 13	2008-08
Siemens	Austria	BC1703 ACP HW/FW-Revision CP-5000/CPC55: BC5-000-A.02 / 14, HW/FW-Revision SM-2556/ET03: BC2-556--.10 / 06.02	IEC 61850-8-1 block 1, 2, 4, 5, 9ab, 12acd, 13	2008-08
Siemens	Austria	TM1703 ACP HW/FW-Revision CP-6003/CPC65:GC6-003-A.03 / 17HW/FW-Revision SM-2556/ET03:BC2-556--.10 / 06.02	IEC 61850-8-1 block 1, 2, 5, 9ab, 12a, 13	2008-08

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Telvent Energía	Spain	Telvent SubCATFirmware version 1.13	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2008-08
NARI-RELAYS	China	RCS-931 Line Differential Relay Firmware version R10.01	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12ad, 13, 14	2008-07
NARI-RELAYS	China	RCS-9611C Feeder Management Relay Firmware version R2.20	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12ad, 13, 14	2008-07
Prolan Process Control Co	Hungary	Prolan ProField IED Protocol stack: 1.1.0 Configuration: 1.0.0 Firmware: 1.0.2	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13	2008-07
ABB	Finland	REF 545 V3.5 With SPA-ZC 400 V2.1.2	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ad, 13	2008-06
ABB	Finland	REM 545 V2.5 With SPA-ZC 400 V2.1.2	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ad, 13	2008-06
ABB	Finland	RET 545 V3.0 With SPA-ZC 400 V2.1.2	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ad, 13	2008-06
EFACEC	Portugal	UAC 420 Automation and Control Unit, Version UAC 420-Ed1-S-v6.4	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13	2008-05
Protecta Electronics	Hungary	EUROPROT Superset device, Firmware version 1.2	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ab, 13	2008-05
Schweitzer Engineering Laboratories (SEL)	USA	SEL-710 Motor Protection Relay Firmware R204	IEC 61850-8-1 block 1, 2, 5, 9ab, 12a	2008-05
Schweitzer Engineering Laboratories (SEL)	USA	SEL-751A Feeder Protection Relay Firmware R103	IEC 61850-8-1 block 1, 2, 5, 9ab, 12a	2008-05
GE Energy	Canada	D25 Multifunctional IED Version: Gen 4 B097-0 IEC 61850 DPA Version: 240 L030-0 MMS Library Version: 410	IEC 61850-8-1 block 1, 2, 6, 12ab, 13, 14	2008-04
Hyundai Heavy Industries Co.	Korea	HIMAP-BCS Hyundai Intelligent Measurement and Protective Bay Controller for digital Substation automation Hardware 1.0 Software 2.0	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12ab, 13	2008-04

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Hyundai Heavy Industries Co.	Korea	HIPDS Hyundai Intelligent Preventive Diagnosis System Hardware 3.0 Software 3.0	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12ab, 13	2008-04
Toshiba Corporation	Japan	G1IF4 Interface unit main software: GSPPM1-01-AIEC61850 communication firmware: GPM850-03-B	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12cd, 13, 14	2008-04
Toshiba Corporation	Japan	GRL100 Line Differential Protection, Main software: GSPLM1-01- AIEC61850 communication firmware: GPM850-01-D	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12c, 13, 14	2008-04
DIMAT	Spain	TPU-1 Tele protection unit Software version 1.0	IEC 61850-8-1 block 9ab	2008-03
DOBLE Engineering	USA	F6150 Power System Simulator Firmware version 4.27	IEC 61850-8-1 block 9ab, 13	2008-03
ZIV P+C	Spain	#IDV-A, Type: 8IDV-A3N-220401SB OS version 2.0 Application version 4.6	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12a, 13, 14	2008-03
ZIV P+C	Spain	#MCV-A, Type: 6MCV-A3N-22J411VB OS version 2.0 Application version 4.6	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ac, 13, 14	2008-03
ZIV P+C	Spain	#RTV-D, Type: 6RTV-D3N-220301QB OS version 2.0 Application version 4.6	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ac, 13, 14	2008-03
ZIV P+C	Spain	#ZLV-B, Type: 8ZLV-B3N-225200QEL OS version 2.0 Application version 4.6	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ac, 13, 14	2008-03
ABB	Finland	REF615 Feeder Protection Relay Version: V1.0.1	IEC 61850-8-1 block 1, 2, 4+, 5, 6, 9ab, 12ad, 13, 14	2008-01
Beijing Sifang Engineering Co.	P.R.China	CSC-101 Numerical Transmission Line Protection Equipment Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2008-01
Beijing Sifang Engineering Co.	P.R.China	CSC-150 Numerical Busbar Protection Equipment Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2008-01
Beijing Sifang Engineering Co.	P.R.China	CSC-161 Numerical Transmission Line Protection Equipment Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2008-01

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Beijing Sifang Engineering Co.	P.R.China	CSC-211 Numerical Protection and Management Equipment Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2008-01
Beijing Sifang Engineering Co.	P.R.China	CSC-326 Numerical Transformer Protection Equipment Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2008-01
Beijing Sifang Engineering Co.	P.R.China	CSI-200EA Numerical Measuring and Control Equipment Version 1.10	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 9ab, 12ad, 13, 14	2008-01
Siemens	Germany	SIPROTEC 7VK6 Breaker Management Relay Firmware V04.60	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2008-01
ELIOP	Spain	iBC 5000 Elitel 5/5000 Version 1.09 Rev 5	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ab, 13, 14	2007-12
Ingeteam T&D	Spain	TCP-IH Integrated Protection & Control System Hardware version 06.02.06 Software revision S	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2007-12
BHEL	India	Protec-LN	IEC 61850-8-1 block 1, 2, 3, 4, 5, 6, 9a, 13, 14	2007-10
Siemens	Germany	SIPROTEC 6MD61 I/O Box Firmware V04.01	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12ad, 13	2007-10
Siemens	Germany	SIPROTEC 6MD63 MV Bay Control Unit Firmware V04.64	IEC 61850-8-1 block 1, 2+, 5, 9ab, 12ad, 13	2007-10
Siemens	Germany	SIPROTEC 6MD66 HV Bay Control Unit Firmware V04.70	IEC 61850-8-1 block 1, 2+, 5, 9ab, 12ad, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7SA522 Distance Protection Firmware V04.64	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7SA6 Distance Protection and Control Firmware V04.64	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7SD5 Differential Protection for 2 - 6 Line-Terminals with Distance Protection Firmware V04.60	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7SD6 Universal Two-Terminal Differential Protection Firmware V04.60	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Siemens	Germany	SIPROTEC 7SJ61 Multifunction Protection Firmware V04.70	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7SJ62 Multifunction Protection Firmware V04.70	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7SJ63 Multifunction Protection Firmware V04.64	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7SJ64 Multifunction Protection with Synchro Function Firmware V04.70	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7SS52 Distributed Busbar / Breaker Failure Protection Firmware V04.61	IEC 61850-8-1 block 1, 2+, 5, 6, 9ab, 12a, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7UM62 Multifunction Generator Protection Relay Firmware V04.62	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7UT613 Differential Protection Firmware V04.60	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7UT633 Multifunctional differential protection for transformers 2-3 windings Firmware V04.60	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7UT635 Multifunctional differential protection for transformers 2-5 windings Firmware V04.60	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2007-10
Siemens	Germany	SIPROTEC 7VE6 Multifunctional Paralleling Devices Firmware V04.60	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 9ab, 12ad, 13, 14	2007-10
SELTA	Italy	SELTA STCE/SA100 Regime Ver 2.0.6 (b4) Regime Code 658079005-A0-IT	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ab, 14	2007-08
SELTA	Italy	SELTA STCE/SA200 Regime Ver 2.0.6 (b4) Regime e 658079005-A0-IT	IEC 61850-8-1 block 1, 2, 6, 9ab, 14	2007-08
Toshiba Corporation	Japan	GBU100 Bay Control Unit Version LBXP-S1-A Firmware GPM850-02-A	IEC 61850-8-1 block 1, 2, 4, 6, 9ab, 12d, 13, 14	2007-08

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Areva T&D	Germany	MiCOM P132 Feeder Management and Bay Control Firmware -611 -204	IEC 61850-8-1 block 1, 2, 5, 9ab, 12acd, 13, 14	2007-06
Areva T&D	United Kingdom	MiCOM P345 Generator Protection Firmware 32G	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-06
Areva T&D	Germany	MiCOM P437 Distance Protection Device Firmware -611 -203	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-06
Areva T&D	Germany	MiCOM P439 Distance Protection & Control Firmware -613 -206	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-06
Areva T&D	Germany	MiCOM P634 Transformator Differential Protection Firmware -611 -203	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-06
Areva T&D	United Kingdom	MiCOM P741 Numerical Busbar Protection Firmware 40A	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-06
Areva T&D	United Kingdom	MiCOM P743 Numerical Busbar Protection Firmware 40A	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-06
NARI-Relays	China	RCS-9705C Bay Control Unit Firmware R6.43.5	IEC 61850-8-1 block 1, 2, 3, 4, 5, 6, 9ab, 12d, 13, 14	2007-06
Schneider Electric	France	ECI 850 Sepam Server, Version 1.2 with Sepam Series 40	IEC 61850-8-1 block 1, 2, 4, 6, 12ad, 13, 14	2007-06
Toshiba Corporation	Japan	GRT100 Transformer Protection Version GSPTM1-01-A Firmware GPM850-01-C	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12c, 13, 14	2007-06
ABB	Vaasa	REF542plus Feeder Terminal	IEC 61850-8-1 block 1, 2, 5, 6, 12ad, 13	2007-04
Areva T&D	United Kingdom	MiCOM P145 Feeder Management Relay	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-04
Areva T&D	United Kingdom	MiCOM P442/P444 Distance Relay	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-04
Areva T&D	United Kingdom	MiCOM P443 Fast Multifunction Distance Protection	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-04
ZIV P+C	Spain	#IRV-A Type: 7IRV-A3N-220400VB OS version 2.0 Application version 3.13	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ac, 13	2007-04
SEL	USA	SEL-311L Line Current Differential Protection	IEC 61850-8-1 block 1, 2, 5, 9ab, 12a, 13	2006-11
SEL	USA	SEL-421 High Speed Line Protection	IEC 61850-8-1 block 1, 2, 5, 9ab, 12a, 13	2006-11

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
GE Multilin	Spain	F650 Bay Controller	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2006-09
GE Multilin	Canada	UR F60 Feeder Relay	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ab, 13, 14	2006-09
Areva T&D	United Kingdom	MiCOM P545 Current Differential Relay	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2006-08
Toshiba Corporation	Japan	GRZ100	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12c, 13, 14	2006-07
Areva T&D	Germany	MiCOM P139 Feeder Management and Bay Control Unit	IEC 61850-8-1 block 1, 2, 4, 5, 9ab, 12acd, 13, 14	2006-06
Siemens	Germany	Siemens SIPROTEC 7UT635 Multifunctional differential protection for transformers	IEC 61850-8-1 block 1, 2+, 4, 5, 9ab, 12acd, 13, 14	2006-05
Siemens	Germany	SIPROTEC 6MD61 I/O Box	IEC 61850-8-1 block 1, 2+, 5, 9ab, 12ad, 13, 14	2006-05
Siemens	Germany	SIPROTEC 6MD63 Bay Control Unit	IEC 61850-8-1 block 1, 2+, 5, 9ab, 12ad, 13, 14	2006-05
Siemens	Germany	SIPROTEC 6MD66 Bay Control Unit	IEC 61850-8-1 block 1, 2+, 5, 9ab, 12ad, 13, 14	2006-05
Siemens	Germany	SIPROTEC 7SA6 Distance Protection and Control	IEC 61850-8-1 block 1, 2+, 4, 5, 9ab, 12acd, 13, 14	2006-05
Siemens	Germany	SIPROTEC 7SJ61 Multifunction Protection	IEC 61850-8-1 block 1, 2+, 4, 5, 9ab, 12acd, 13, 14	2006-05
Siemens	Germany	SIPROTEC 7SJ62 Multifunction Protection	IEC 61850-8-1 block 1, 2+, 4, 5, 9ab, 12acd, 13, 14	2006-05
Siemens	Germany	SIPROTEC 7SJ63 Multifunction Protection	IEC 61850-8-1 block 1, 2+, 4, 5, 9ab, 12acd, 13, 14	2006-05
Siemens	Germany	SIPROTEC 7SS52 Distributed Busbar / Breaker Failure Protection	IEC 61850-8-1 block 1, 2+, 5, 9ab, 12a, 13, 14	2006-05
Siemens	Germany	SIPROTEC 7UM62 Multifunction Generator Protection Relay	IEC 61850-8-1 block 1, 2+, 4, 5, 9ab, 12ad, 13, 14	2006-05
Siemens	Germany	SIPROTEC 7UT613 Differential Protection	IEC 61850-8-1 block 1, 2+, 4, 5, 9ab, 12acd, 13, 14	2006-05
Siemens	Germany	SIPROTEC 7UT633 Multifunctional differential protection for transformers	IEC 61850-8-1 block 1, 2+, 4, 5, 9ab, 12acd, 13, 14	2006-05
Areva T&D	France	MiCOM C264P	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13	2006-04
GE Multilin	Spain	F650 Bay Controller	IEC 61850-8-1 block 1, 2, 5, 6, 12a, 13, 14	2006-04
ABB Sweden	Sweden	ABB IED 670	IEC 61850-8-1 block 1, 2, 3, 4, 6, 9ab, 12ad, 13	2006-03
TEAM S.A.	Spain	SISTEAM 61850 GATEWAY ZY7060	IEC 61850-8-1 block 1, 2, 5, 13, 14	2006-01

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MANUFACTURER	COUNTRY	SERVER EDITION 1	PROTOCOL	DATE
Maschinenfabrik Reinhausen	Germany	Voltage regulator TAPCON 260	IEC 61850-8-1 block 1, 2, 5, 12a, 13	2005-10
A. Eberle GmbH & Co.	Germany	REG-PE tap changer controller with REG-D unit Build V7.98	IEC 61850-8-1 block 1, 2, 5, 12a, 13	2005-09
ABB	Finland	ABB REF545 with SPA-ZC 400	IEC 61850-8-1 block 1, 2, 5, 6, 12ad, 13	2005-08
ABB Switzerland	Switzerland	ABB REL316*4	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12ad, 13	2005-08
GE Multilin	Canada	UR F60 feeder relay	IEC 61850-8-1 block 1, 2, 5, 6	2005-08
Siemens	Germany	SIPROTEC 7SJ64x Protection and control unit	IEC 61850-8-1 block 1, 2+, 4, 5, 9ab, 12ad, 13,14	2005-04
ELIOP	Spain	Sigres NT gateway	IEC 61850-8-1	2004-08

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5 SERVER DEVICES EDITION 2

MANUFACTURER	COUNTRY	SERVER EDITION 2	PROTOCOL	DATE
NR Electric Co., Ltd.	China	PCS-9611S FEEDER RELAY	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 9a, 9b, 12abcd, 13 ,14,15	2018-05
EKRA Research and Production Enterprise, Ltd.	Russia	BE2502A0103 (БЭ2502A0103) Feeder Relay	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9a, 9b, 12ad, 13 ,14	2018-05
EKRA Research and Production Enterprise, Ltd.	Russia	BE2704V019 (БЭ2704V019) Line Relay	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9a, 9b, 12ad, 13 ,14	2018-05
Schweitzer Engineering Laboratories, Inc.	USA	SEL-2440 Discrete Programmable Automation	IEC 61850-8-1 block 1, 2, 5, 6, 9a, 9b, 12acd, 13	2018-04
Schweitzer Engineering Laboratories, Inc.	USA	SEL-2411 Programmable Automation Control	IEC 61850-8-1 block 1, 2, 5, 6, 9a, 9b, 12acd, 13	2018-04
Núcleo de Comunicaciones y Control S.L.U.	Spain	Sherpa R 5000 Modular RTU/IED, MPB 600 c	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 9a, 9b, 12abcd, 13 ,14	2018-04
Schneider Electric	Finland	Easergy P3U30 Protection relay	IEC 61850-8-1 block 1, 2, 5, 6, 9a, 9b, 12abcd, 13, 14	2018-02
Schneider Electric Industries SAS	France	Easergy MiCOM P438 Rail Catenary Protect	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9a, 9b, 12acd, 13, 14	2018-02
Schneider Electric Recloser Solutions	Australia	ADVC3 - Advanced Controller	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 12ad, 13	2018-02
Schneider Electric Industries SAS	France	Easergy MiCOM P741 Busbar Protection Relay Software version: B1 Hardware version: M	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9a, 9b, 12abcd, 13 ,14	2018-01
Schneider Electric Industries SAS	France	Easergy MiCOM P142 Feeder Management Relay Software version: B3 Hardware version: L	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9a, 9b, 12abcd, 13 ,14	2018-01
ООО "SVEY" (Свей)	Russia	AURA-07-R (АУРА-07-Р) Disturbance Record Software version: 0.2.2.35	IEC 61850-8-1 block 1, 2, 5, 9b, 12a, 13 ,14	2017-12
Schweitzer Engineering Laboratories, Inc.	Mexico	SEL-411L Advanced Line Differential Protection Software version: 411L-R121-V0-Z012002-D20170914	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12acd, 13, 14	2017-11

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MANUFACTURER	COUNTRY	SERVER EDITION 2	PROTOCOL	DATE
Schweitzer Engineering Laboratories, Inc.	Mexico	SEL-421-7S Protection Software version: 421-7-R402-V0-Z100001- D20171006	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12acd, 13, 14	2017-11
Schweitzer Engineering Laboratories, Inc.	Mexico	SEL-451 Protection Software version: 451-5-R321-V0-Z024012- D20171008	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12acd, 13, 14	2017-11
WAGO Kontakttechnik GmbH & Co. KG	Germany	750-8202/025-001 Remote Terminal Unit Software version: 3.3.8	IEC 61850-8-1 block 1, 2, 2+, 3, 5, 6, 9ab, 12abcd, 13	2017-11
NARI Technology Co., Ltd.	China	NSR-321 Breaker failure protection Software version: 2.11	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2017-11
NARI Technology Co., Ltd.	China	NSR-372CU Distributed busbar protection Software version: 1.00	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 13, 14, 15	2017-11
JSC "Cheaz"	Russia	BEMP RU-(БЭМП РУ-)02.5.220.ET Feeder IED Software version: 10206	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14	2017-11
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3530 Real-Time Automation Controller Software version: 3530-R139-V1-Z001001-D20170628	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12acd, 13, 14	2017-10
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3505 Real-Time Automation Controller Software version: 3505-3-R139-V1-Z001001- D20170628	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12acd, 13, 14	2017-10
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3555 Real-Time Automation Controller Software version: 3555-R139-V1-Z001001- D20170628	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12acd, 13, 14	2017-10
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3532 Real-Time Automation Controller Software version: 3532-N-R139-V1-Z001001- D20170628	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12acd, 13, 14	2017-10

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MANUFACTURER	COUNTRY	SERVER EDITION 2	PROTOCOL	DATE
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3530-4 Real-Time Automation Controller Software version: 3530-4-R139-V1-Z001001-D20170628	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12acd, 13, 14	2017-10
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3505-3 Real-Time Automation Controller Software version: 3505-R139-V1-Z001001-D20170628	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12acd, 13, 14	2017-10
Schweitzer Engineering Laboratories, Inc.	USA	SEL-3560 Real-Time Automation Controller Software version: 3560-R139-V1-Z001001-D20170628	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9ab, 12acd, 13, 14	2017-10
Schweitzer Engineering Laboratories, Inc.	Mexico	SEL-401 Protection, Automation, Control, Merging Unit Software version: V0-Z100001-D20170918	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12acd, 13, 14	2017-10
Schweitzer Engineering Laboratories, Inc.	Mexico	SEL-421-7P Protection Software version: 421-7-R402-V0-Z100001-D20171006	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12acd, 13, 14	2017-10
Siemens	Germany	SIPROTEC 5 7UM85 Generator protection Software version: V07.50 Hardware version: 7UM85-DAAA-AA0-0AAA0-AZ3111-1311	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14, 15	2017-09
EFACEC	Portugal	TPU S430 Multifunction Protection Software version: 2.04.000 Hardware version: MAP8100	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14	2017-08
EFACEC	Portugal	TPU T500 High-end Transformer Protection Software version: 1.11.000 Hardware version: MAP8001	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14	2017-08
PLC Technology	Russia	TOPAZ IEC DAS MX240 + TM BIN16 and PM7 Software version: v.2.1.0.4 with core v.2.0.2.1	IEC 61850-8-1 block 1, 2, 5, 6, 12ab, 13, 14	2017-07
Schweitzer Engineering Laboratories, Inc.	Mexico	SEL-451 Protection, Automation, Bay Ctrl Software version: R320 + 61850 library 55CCEC31	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12acd, 13, 14	2017-07

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MANUFACTURER	COUNTRY	SERVER EDITION 2	PROTOCOL	DATE
CG Automation Limited	UK	XCell RTU - Remote Telemetry Unit Software version: 61850SNB v3.01 Hardware version: CPR-041 MP10	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13	2017-06
Qualitrol Company LLC	USA	QTMS Transformer Monitoring System Software version: QTMS 2.8.0; IEC61850 01.00.06	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 13	2017-06
Siemens	UK	Reyrolle 7SR12 Argus Software version: 2436H80004R4d	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2017-05
Schneider Electric	France	Easergy MiCOM P243 Motor Protection Relay	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2017-05
Schneider Electric Industries SAS	France	Easergy MiCOM P643 Transformer Protection Relay	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2017-05
RoCon PLC	Bulgaria	DRAGON RFI-D Overcurrent Protection Software version: 4.050/24.05.17 Hardware version: 4	IEC 61850-8-1 block 1, 2, 2+, 4, 4+, 5, 6, 9ab, 12ad, 13, 14, 15	2017-05
Ingeteam Power Technology, S.A.		INGEPAC EF-MD3 Multifunctional P&C Relay	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14, 15	2017-04
Electro Industries/ GaugeTech	USA	Nexus 1500+ Power Quality Revenue Meter Software version: 15.6002	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 13, 14	2017-03
ENERDIS	France	ELINK IEC61850 + 2 ENERIUM110 PMDs	IEC 61850-8-1 block 1, 13	2017-03
ENERDIS	France	ELINK IEC61850 + 4 TRIAD2 Transducers	IEC 61850-8-1 block 1, 13	2017-03
EKRA Research and Production Enterprise, Ltd.	Russia	EKRA 217 0603 Feeder protection, automat Software version: 7.1.0.6.571	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12abcd, 13, 14	2017-02
TECON Group	Russia	TECON 311FS (TEKOH 311FS) Feeder protection Firmware version: 0.6.0	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2017-01
Siemens	Germany	SICAM AK 3 Automation Component with modules CP-2016 and CP-2019 Software version: ET25 Rev. 03.04	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9b, 12acd, 13	2017-01

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MANUFACTURER	COUNTRY	SERVER EDITION 2	PROTOCOL	DATE
Siemens	Germany	SICAM A8000 CP-8000 modular device for telecontrol and automation applications Software version: ET85 Rev. 03.04	IEC 61850-8-1 block 1, 2, 4, 5, 6, 12acd, 13	2017-01
Cheaz	Russia	BEMP DZT (БЭМП-ДЗТ) Transformer Protection 61850 Firmware version: 036-03.01	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12abcd, 13, 14	2016-12
Schneider Electric	Finland	VAMP 57 Feeder Manager Software version: V20.107 Hardware version: V57F-3AAA1BCA	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 9ab, 12abcd, 13, 14	2016-12
Grid Solutions	France	DS Agile Gateway Substation Gateway-Proxy / Wide Area Controller Unit Software version: DS Agile V7	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9b, 12acd, 13	2016-11
ABB	Sweden	REC670, REB650, REB670, REC650, RED650, RED670, REG670, REL650, REL670, REQ650, RER670, RES670, REET650, RET670, SAM600-IO Software version: 2.2.0.31	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 9b, 12ad, 13, 14, 15	2016-11
Grid Solutions	France	DS Agile C264 Modular Substation / Bay Controller; Software version: DS Agile V7	IEC 61850-8-1 block 1, 2, 3, 5, 6, 9b, 12acd, 13, 14	2016-10
Siemens	Germany	SICAM AK 3 Automation Component with modules CP-2016, CP-2019 and SM-2558 Software version: ETA5 Rev. 03.04	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9b, 12acd, 13	2016-09
Grid Solutions	France	e-terragridcomDIP.net Automation Component Software version: TPSAfull_1.x.IHR3.5_b183-BSP3.1-run2	IEC 61850-8-1 block 1, 2, 9ab, 13	2016-08
Dema Röle	Turkey	MPM 400.D, VPM 400.D, CPM 400.D, DPM 400.D Protection Relay Software version: 1.0	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9b, 12a, 13, 14	2016-07
ABB	Sweden	REB500 Distributed Busbar Protection Firmware version 8.2.0.1	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9b, 12a, 13, 14	2016-06

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MANUFACTURER	COUNTRY	SERVER EDITION 2	PROTOCOL	DATE
Beijing Sifang Automation	China	CSC-211 Multifunction Protection IED 61850 Ed2 version V2.9	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 9ab, 12ad, 13, 14, 15	2016-06
Beijing Sifang Automation	China	CSI-101 Line Protection IED 61850 Ed2 version V1.00	IEC 61850-8-1 block 1, 2+, 3, 4+, 5, 6, 9ab, 12ad, 13, 14, 15	2016-06
Beijing Sifang Automation	China	CSI-200E Bay Control IED Firmware version V7.10	IEC 61850-8-1 block 1, 2+, 3, 4, 5, 6, 9ab, 12ad, 13, 15	2016-06
Schneider Electric	France	MiCOM C264 Software version D2.06	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12acd, 13, 14	2016-04
Doble Engineering	USA	F6150sv Power system simulator Software version 5.6.1	IEC 61850-8-1 block 1 9ab, 13	2016-03
Schneider Electric	France	P546 Current Differential Protection Relay Software version H4	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2016-03
Ingeteam Power Technology	Spain	INGEPAC DA-PT Multifunction protection Software version 0.5.1.0	IEC 61850-8-1 block 1, 2, 3, 4+, 5, 6, 9ab, 12abcd, 13, 14, 15	2016-03
TOSHIBA	Japan	GRL 200 Line Differential Protection Software version G2M850-02-A	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14, 15	2016-03
GE Multilin	Canada	889 Generator Protection System Software version 1.60	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2016-02
Schneider Electric	Canada	PowerLogic ION7400 Meter and PM8000 Meter Firmware: 001.002.015	IEC 61850-8-1 block 1, 2, 5, 6, 12a, 13	2016-01
Siemens	Germany	SIPROTEC 4 7SJ66 Firmware version V07.00	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12abcd, 13, 14	2015-12
GE Multilin	Canada	F650 Digital bay controller Software version 7.20	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14	2015-12
GE Multilin	Canada	C650 Bay control and monitoring system Software version 7.20	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2015-12
ABB	Italy	Motor Drive 1.4 Software version 1.11	IEC 61850-8-1 block 1, 2, 9ab, 12a, 13	2015-12
Schweitzer Engineering Laboratories	USA	SEL-751 Feeder Protection Software version R111	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12acd, 13, 14	2015-12

TEST REGISTER FOR IEC 61850

MANUFACTURER	COUNTRY	SERVER EDITION 2	PROTOCOL	DATE
Andritz Hydro	Austria	HIPASE-P Transformer and generator protection of power plants Software version V0.90.50	IEC 61850-8-1 block 1, 2, 6, 13	2015-11
Siemens	Germany	SIPROTEC 5 7SS85 Firmware version V07.00	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14, 15	2015-11
Siemens	Germany	SIPROTEC 5 7SL82, 7SA82, 7SD82, 7UT82 Firmware version V07.00	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14, 15	2015-11
ABB	Finland	REF611, REB611, REM611, REU611 Software version 2.0	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2015-11
Radius Avtomatika	Russia	Sirius-3-LV-03 Software version 3.01	IEC 61850-8-1 block 1, 2, 2+, 5, 6, 9ab, 12a, 13, 14	2015-10
ABB	Sweden	REC670, REB650, REC650, RED650, REL650, RE650, RET650, REB670, RED670, REG670, REL670, RER670, RES670, RET670 Software version 2.1.0.23	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 9ab, 12ad, 13, 14, 15	2015-10
NR Electric	China	PCS-931, PCS-902, PCS-915, PCS-921, PCS-924, PCS-974, PCS-978, PCS-985, PCS-994, PCS-996 Software version Ed2 V1.00	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14	2015-09
NR Electric	China	PCS-9611, PCS-9613, PCS-9631, PCS-9641, PCS-9651, PCS-9671, PCS-9705 Software version Ed2 V1.00	IEC 61850-8-1 block 1, 2, 3, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14	2015-09
ABB	Finland	REF620, REM620, RET620 Software version 2.1	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2015-09
GE Multilin	Canada	845 Transformer protection unit Software version 1.50	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2015-07
GE Multilin	Canada	869 Motor protection unit Software version 1.50	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2015-07
GE Multilin	Canada	850 Feeder protection unit Software version 1.50	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12abcd, 13, 14	2015-07

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MANUFACTURER	COUNTRY	SERVER EDITION 2	PROTOCOL	DATE
Schneider Electric	France	Modicon Quantum 140 NOP850 00 Ethernet Module for IEC61850 FW version 1.0	IEC 61850-8-1 block 1, 2, 5, 6, 9ab, 12ab, 13	2015-06
Nexans Deutschland	Germany	iGigaSwitch 1604E+SFP Firmware version V4.10A	IEC 61850-8-1 block 1, 2, 2+, 5, 12a, 13	2015-06
Schneider Electric	Canada	PowerLogic ION8650 Meter Firmware: 004.020.001	IEC 61850-8-1 block 1, 2, 5, 6, 12a, 13	2015-06
ABB	Finland	REF615, RED615, REG615, REM615, RET615, REU615, REV615 Product version: 5.0 FP1 Software version: 5.1	IEC 61850-8-1 block 1, 2, 4, 4+, 5, 6, 9ab, 12ad, 13, 14	2015-04
Siemens	Germany	SIPROTEC V5 7KE85 Fault Recorder Firmware V06.01	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9ab, 12a, 13, 14, 15	2015-02
Siemens	Germany	SIPROTEC V4 7VU683 Firmware V04.70 EN100 Module V04.23	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 5, 6, 9ab, 12acd, 13, 14	2014-09
Schneider Electric	France	MiCOM P143 Firmware: B0 Hardware: L	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2014-08
Alstom Grid	United Kingdom	MiCOM P40 Agile P546 Differential Protection Relay Software version: 80 Hardware version: M	IEC 61850-8-1 block 1, 2, 4, 5, 6, 9ab, 12abcd, 13, 14	2014-05
ABB	Sweden	REC670 REB670 RED670, REG670 REL670 RES670, RET670 Firmware version: 2.0 Hardware version: 1MRK001535- 29	IEC 61850-8-1 block 1, 2, 3, 4, 5, 6, 9ab, 12ad, 13, 14, 15	2014-04
Siemens	Germany	SIPROTEC V5 7UT87, 7UT86, 7UT85, 7SK85, 7SS85 Firmware V04.00	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14, 15	2013-12
Siemens	Germany	SIPROTEC V5 7SJ82, 7SK82 Firmware V04.00	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 4+, 5, 6, 9ab, 12abcd, 13, 14, 15	2013-12

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MANUFACTURER	COUNTRY	SERVER EDITION 2	PROTOCOL	DATE
Siemens	Germany	SIPROTEC V4 7SA6, 6MD61, 6MD63, 6MD66, 7SA522, 7SD5, 7SD6, 7SJ61, 7SJ62, 7SJ63, 7SJ64, 7SS522, 7UM62, 7UT613, 7UT612, 7UT633, 7UT635, 7VE6, 7VK6, 7SJ80, 7SK80, 7RW80, 7SD80, 7SC80, 7ST6 Firmware V04.72 EN100 Module V04.22	IEC 61850-8-1 block 1, 2, 2+, 4, 5, 6, 9ab, 12acd, 13, 14	2013-09
Siemens	Germany	SIPROTEC V5 7SL87, 6MD85, 6MD86, 7SA84, 7SA86, 7SA87, 7SD84, 7SD86, 7SD87, 7SJ85, 7SJ86, 7SL86, 7VK87 Firmware V03.01	IEC 61850-8-1 block 1, 2, 2+, 3, 4, 5, 6, 9ab, 12abcd, 13, 14, 15	2013-06

6 GOOSE PERFORMANCE

MANUFACTURER	COUNTRY	SERVER	PERFORMANCE CLASS	DATE
ABB SACE Division	Italy	Ekip Touch with Ekip Com IEC61850 Protection	Part 5 Ed.1: P1 (10ms)	2018-01
NR Electric Co., Ltd.	China	PCS-9611S FEEDER RELAY	Part 5 Ed.2: P1 (3ms)	2018-05
NR Electric Co., Ltd.	China	PCS-9705S BAY CONTROL UNIT	Part 5 Ed.2: P1 (3ms)	2018-05
NR Electric Co., Ltd.	China	PCS-978S TRANSFORMER RELAY	Part 5 Ed.2: P1 (3ms)	2018-05
NR Electric Co., Ltd.	China	PCS-902S TRANSFORMER RELAY	Part 5 Ed.2: P1 (3ms)	2018-05
NR Electric Co., Ltd.	China	PCS-931S LINE DIFFERENTIAL RELAY	Part 5 Ed.2: P1 (3ms)	2018-05
NR Electric Co., Ltd.	China	PCS-915SC BUSBAR RELAY	Part 5 Ed.2: P1 (3ms)	2018-05
Stucke Elektronik	Germany	SYMAP-Compact+ IEC61850 Software version: FW1.11.0 Hardware version: v1-2.0	Part 5 Ed.1: P1 (10ms)	2014-06

TEST REGISTER FOR IEC 61850

7 SAMPLED VALUES PUBLISHERS EDITION 1

MANUFACTURER	COUNTRY	PUBLISHER EDITION 1	PROTOCOL	DATE
Ingeteam Power Technology, S.A.	Spain	INGEPAC EF PB Merging Unit	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60Hz	2017-11
Beijing Sifang Automation	China	CSD-603 Merging and Switch Control Unit Software version 2.00 Supporting: 4 phase voltage and current, Neutral is measured	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60Hz	2016-05
Doble Engineering	USA	F6150sv Power System Software version 5.6.1 Supporting: 3 phase voltage and current, Neutral is calculated or measured	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60Hz	2016-03
Siemens	Germany	SIPROTEC 7SC805 Merging Unit Firmware V04.50 Supporting: 4 phase voltage and current, Neutral is measured	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60Hz	2014-05
CYG SUNRI	China	PRS-7395 Smart Terminal & Merging Unit Firmware version 2.3.2.01 Supporting: 3 phase voltage and current, Neutral is measured	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz	2014-04
Mikronika	Poland	SO-52v11-MUA Firmware version 1.4 Supporting: 4 phase voltage and current, Neutral is calculated or measured	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 256 samples/cycle 50Hz	2013-09
Alstom Grid	United Kingdom	MU Agile AMU Supporting: 4 phase voltage and current, Neutral is calculated or measured	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60 Hz	2013-06

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TEST REGISTER FOR IEC 61850

MANUFACTURER	COUNTRY	PUBLISHER EDITION 1	PROTOCOL	DATE
Yousung Instrument & Electric	Korea	YSMU-121540 Hardware version 1.0 Software version 1.0 Supporting: 3 phase voltage and current, Neutral is calculated or measured	Implementation Guideline for IEC 61850-9-2 (9-2LE) 256 samples/cycle 60Hz	2013-05
OMICRON electronics	Austria	CMC353 Test Set Firmware: TU 2.41.3998 Supporting: 3 phase voltage and current, Neutral is calculated	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60 Hz	2012-11
OMICRON electronics	Austria	CMC356 Test Set Firmware: TU 2.41.3998 Supporting: 3 phase voltage and current, Neutral is calculated	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60 Hz	2012-11
NARI Relays	China	PCS-221 Merging Unit HW version R1.00 SW version R1.00 Supporting: 3 phase voltage and current, Neutral is either calculated or measured	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60 Hz	2012-10
OMICRON electronics	Austria	CMC256plus Test Set Firmware: TU 2.41.3998 Supporting: 3 phase voltage and current, Neutral is calculated	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60 Hz	2012-09
OMICRON electronics	Austria	CMC850 Test Set Firmware: TU 2.41.3998 Supporting: 3 phase voltage and current, Neutral is calculated	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60 Hz	2012-09
Interoptix	USA	SAMU-IX merging unit for protection Hardware version 02 Firmware version 3.2 Supporting: 3 phase voltage and current, Neutral is either calculated or measured	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60 Hz	2012-08

TEST REGISTER FOR IEC 61850

MANUFACTURER	COUNTRY	PUBLISHER EDITION 1	PROTOCOL	DATE
Bharat Heavy Electricals Ltd. (BHEL)	India	BHEL-MU Merging Unit Firmware K0.01 Supporting: 4 phase voltage and current	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60 Hz	2011-02
ABB Switzerland	Switzerland	CP-MUP merging unit for protection Hardware version AD Firmware version 1.0.1.0 Supporting: 3 phase voltage and current Neutral is calculated	Implementation Guideline for IEC 61850-9-2 (9-2LE) 80 samples/cycle 50Hz 80 samples/cycle 60 Hz	2010-03

8 ENVIRONMENTAL AND FUNCTIONAL TESTS OF ETHERNET SWITCHES AND IEDS

IEC 61850-90-4 Functional test

IEC 61850-90-4 Functional test: the device undertook only functional testing accordingly to IEC 61850-90-4.

IEC 61850-3 certified: The device undertook a complete testing program accordingly to IEC 61850-3, including IEC 61850-90-4 functional testing

MANUFACTURER	COUNTRY	ETHERNET SWITCH	TEST SCOPE	DATE
Larsen & Toubro	India	LT26G	IEC 61850-90-4 Functional test	2017-04
Is5Com	Canada	iES26XX	IEC 61850-90-4 Functional test	2017-04
SEL	USA	SEL2740-S	IEC 61850-3 Ed.2 certified	2017-01
GE Grid Solutions	France	DS Agile C264	IEC 61850-3 Ed.2 certified	2016-08
Cisco	USA	IE5000	IEC 61850-3 Ed.2 certified	2016-07
Phoenix Contact	USA	FL Switch 3012E-2FX SM	IEC 61850-3 Ed.2 certified	2016-05
Kyland Technogy	China	SICOM3000	IEC 61850-3 Ed.2 certified	2016-05
GE Grid Solutions	France	DS Agile H49	IEC 61850-3 Ed.2 certified	2016-04
Hirschmann	Germany	GRS	IEC 61850-90-4 Functional test	2016-03
Hirschmann	Germany	RSP	IEC 61850-90-4 Functional test	2016-03
Ciena	Canada	3930	IEC 61850-3 Ed.2 certified	2016-02
Cisco	USA	IE-2000-IP67	IEC 61850-3 Ed.2 certified	2016-02
Reason	Brazil	S20	IEC 61850-90-4 Functional test	2016-01

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MANUFACTURER	COUNTRY	ETHERNET SWITCH	TEST SCOPE	DATE
Cisco	USA	IE-2000U	IEC 61850-3 Ed.2 certified	2016-01
Cisco	USA	IE-4000	IEC 61850-3 Ed.2 certified	2015-11
Kyland Technology	China	SICOM3009A	IEC 61850-3 Ed.2 certified	2015-09
Phoenix Contact	USA	FL Switch 4808E-16FX	IEC 61850-3 Ed.2 certified	2015-06
Kyland Technology	China	SICOM3028GPT	IEC 61850-3 Ed.2 certified	2015-04
Hirschmann	Germany	Rail Switch RS30	IEC 61850-90-4 Functional test	2014-12
Schneider Electric	China	MiCOM P645	IEC 61850-90-4 Functional test	2014-11
MOXA	Taiwan	PT-7528	IEC 61850-90-4 Functional test	2014-09
Is5 Communication	Canada	iES28	IEC 61850-3 Ed.2 certified	2014-09
Larsen & Toubro	Canada	LT28TG	IEC 61850-3 Ed.2 certified	2014-09
RuggedCom	USA	RSG2488	IEC 61850-90-4 Functional test	2013-11
ZIV	Spain	3SWTEE001NM2000M	IEC 61850-90-4 Functional test	2013-10
SEL	USA	SEL-2730M	IEC 61850-90-4 Functional test	2013-08
Cisco	USA	IE3000	IEC 61850-90-4 Functional test	2013-08
Radiflow	Israel	3180	IEC 61850-90-4 Functional test	2013-05
Garretcom	USA	10KT and 10ETS	IEC 61850-90-4 Functional test	2012-12
RuggedCom	USA	RX1500	IEC 61850-90-4 Functional test	2012-08
GW Delight	China	GIS2528	IEC 61850-90-4 Functional test	2012-05
RuggedCom	USA	RS900	IEC 61850-90-4 Functional test	2011-07
NARI	China	PCS-9882	IEC 61850-90-4 Functional test	2011-03
NARI	China	EPS6028E	IEC 61850-90-4 Functional test	2011-02
N-Tron	USA	712FX4 and 710FX2	IEC 61850-90-4 Functional test	2011-02
Etherwan	Taiwan	EX87244	IEC 61850-90-4 Functional test	2010-12
Beijing Omate	China	Omate 6000	IEC 61850-90-4 Functional test	2010-08
PT-Switch	China	M7000	IEC 61850-90-4 Functional test	2010-08
Cisco	USA	Surge 16/24	IEC 61850-90-4 Functional test	2010-06
Golden Highway	China	IETH8008-F4C4	IEC 61850-90-4 Functional test	2010-04
Nexans	Germany	iSwitch G 1043E SFP-3VI PRO3	IEC 61850-90-4 Functional test	2010-04
NARI	China	PCS-9882	IEC 61850-90-4 Functional test	2010-03
SixNet	USA	Sixnet EL228	IEC 61850-90-4 Functional test	2010-03
Wiscom	China	WISLINK W-2000	IEC 61850-90-4 Functional test	2010-01
Cisco	USA	IE-3000	IEC 61850-90-4 Functional test	2009-08
GE Multilin	Canada	ML2400	IEC 61850-90-4 Functional test	2009-08
Kyland	China	SICOM3024P	IEC 61850-90-4 Functional test	2009-01

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MANUFACTURER	COUNTRY	ETHERNET SWITCH	TEST SCOPE	DATE
GarrettCom	USA	Magnum 6K	IEC 61850-90-4 Functional test	2008-10
MOXA	Taiwan	PT-7710	IEC 61850-90-4 Functional test	2008-04
Hirschmann	Germany	MACH-1030	IEC 61850-90-4 Functional test	2007-10
MOXA	Taiwan	PT-7324	IEC 61850-90-4 Functional test	2007-10
MOXA	Taiwan	PT-7728	IEC 61850-90-4 Functional test	2007-10
RuggedCom	USA	RSG2100	IEC 61850-90-4 Functional test	2006-10
uSysCom	Spain	3SWT	IEC 61850-90-4 Functional test	2006-04

TEST REGISTER FOR IEC 61850

9 OVERVIEW OF ACSI SERVICES PER CONFORMANCE BLOCK

CONFORMANCE BLOCK	MANDATORY	OPTIONAL
1: Basic Exchange	Associate, Abort, Release GetServerDirectory, GetLogicalDeviceDirectory GetLogicalNodeDirectory (DATA) GetDataValues, GetDataDirectory, GetDataDefinition	GetAllDataValues SetDataValues
2: Data Set	GetLogicalNodeDirectory (DATA-SET) GetDataSetValues GetDataSetDirectory	SetDataSetValues
2+: Data Set Definition	CreateDataSet, DeleteDataSet	
3: Substitution	SetDataValues, GetDataValues	
4: Setting Group	SelectActiveSG, GetSGCBValues	GetSGValues
4+: Setting Group Definition	SelectEditSG, GetSGValues, SetSGValues ConfirmEditSGValues	
5: Unbuffered Reporting	Report, GetURCBValues, SetURCBValues	
6: Buffered Reporting	Report, GetBRCBValues, SetBRCBValues	
7: Logging	GetLCBValues, GetLogicalNodeDirectory(LOG) QueryLogByTime or QueryLogAfter, GetLogStatusValues	SetLCBValues
8: GSSE	<deprecated>	
9a: GOOSE publish	SendGOOSEMessage (publish)	GetGoCBValues SetGoCBValues
9b: GOOSE subscribe	SendGOOSEMessage (subscribe)	
9c: GOOSE management	GetGoReference, GetGOOSEElementNumber	
10: Sampled values part 9-1 pub/sub	<no ACSI service associated>	
11a: Sampled values part 9-2 publish	SendUSVMessage or SendMSVMessage	GetxSVCBValues SetxSVCBValues
12a: Direct control	Operate	TimeActivatedOperate
12b: SBO control	Select, Cancel, Operate	TimeActivatedOperate
12c: Enhanced Direct Control	Operate CommandTermination	TimeActivatedOperate
12d: Enhanced SBO control	SelectWithValue, Cancel, Operate CommandTermination	TimeActivatedOperate
13: Time sync	SNTP Time Synchronization	
14: File transfer	GetFile GetFileAttributeValues	SetFile DeleteFile
15: Service tracking (Edition 2 only)	<no ACSI service associated>	