



IEC 61850 Test Register

Test Register for

IEC 61850 Ed1 Client Systems

IEC 61850 Ed1 Server Devices

IEC 61850 Ed1 Sampled Value Publishers (Merging Units)

IEC 61850 Ethernet Switches

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Test Register for IEC 61850 Ed1 Client Systems

MANUFACTURER	COUNTRY	CLIENT SYSTEM	PROTOCOL	DATE
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 Hardware: LG XNOTE A530 with Windows 7 Professional	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 12abcd, 13, 14	2012-08
KEPCO-KDN	Korea	KDN-STAS Software 1.0 Hardware HP-Z800 with Windows 7	IEC 61850-8-1 block 1, 2+, 4+, 5, 6, 12abcd, 13, 14	2012-07
GE Digital Energy	Spain	CCU 1000 Central Control Unit Firmware 1.0 Software 1.6	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 14	2012-06
Selta	Italy	STCE/RTU Regime V. 1.04.04 Regime Code 658072090	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd	2012-04
Woodam Tech	Korea	wPD-IEC61850Client V1.00.00 Hardware: SONY VAIO PCG-41219P with Windows 7 Professional	IEC 61850-8-1 block 1, 2+, 4+, 5, 6, 12abcd, 13, 14	2012-04
IDS	Germany	IDS ACOS750 H/W CU73B S/W 5.7.0 SVN 70490	IEC 61850-8-1 block 1, 2+, 5, 6, 12abcd, 13	2012-03
Daewoong Electric	Korea	DW-SPIN IEC 61850 Client V.1.0 Hardware: SONY VPCSA with Windows 7 Professional	IEC 61850-8-1 block 1, 2+, 4+, 5, 6, 12abcd, 13, 14	2012-02
Protecta Electronics	Hungary	EuroGateway firmware version: 1.2 hardware version: 1.3	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13	2011-07



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Ing. Punzenberger COPA-DATA	Austria	COPA-DATA IEC850 - Driver for IEC61850 protocol; version 6.51.0.4101	IEC 61850-8-1 block 1, 2+, 5, 6, 12abcd, 14	2011-06
Invensys Operations Management	USA	Invensys Station Computing Device SCD5200 and Remote Terminal Unit RTU50	IEC 61850-8-1 block 1, 5, 6, 12abcd, 13	2011-01
IPCOMM	Germany	IPCOMM ipConv Gateway, IEC61850 Client Protocol Stack PS_IEC61850CLIENT_1 21.01.2011, Hardware: IPCOMM IPC191V3	IEC 61850-8-1 block 1, 2, 5, 6, 12abcd, 13	2011-01
LS Industrial Systems	Korea	TOPAS-SA System based on IEC 61850, Version 1.0	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 12abcd, 13, 14	2010-11
U2S	Korea	SAMCAS IEC61850 Client V1.0	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 12abcd, 13, 14	2010-07
Telvent	Spain	Telvent subCAT Firmware version 1.409	IEC 61850-8-1 block 1, 5, 6, 12abcd, 13, 14	2010-02
Siemens	Germany	Siemens SICAM PAS version V6.00.35	IEC 61850-8-1 block 1, 2+, 4, 5, 6, 12acd, 13, 14	2009-03

The most recent list and all corresponding IEC 61850 certificates can be found at:

<http://www.ucaiug.org/org/TechnicalO/Testing/UCAlug%20Testing%20Quality%20Assurance%20Program/Forms/AllItems.aspx>.

If you don't have a login account you can create a free guest account on the home page.

For more information on the test results please contact the manufacturer directly.

Test Register for IEC 61850 Ed1 Sampled Values Publishers (Merging Units)

MANUFACTURER	COUNTRY	SAMPLED VALUES PUBLISHER	PROTOCOL	DATE
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	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
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	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
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
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
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



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MANUFACTURER	COUNTRY	SAMPLED VALUES PUBLISHER	PROTOCOL	DATE
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

Test Register for IEC 61850 Ed1 Server Devices (compare Annex A for protocol conformance block details)

MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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	SICAM230 IEC61850 Server Standalone Version 1.0 Hardware: Fujitsu Lifebook E8010 with Windows 7	IEC 61850-8-1 block 1, 2, 5, 13	2012-11
Siemens	Germany	7XV5674 SICAM AI Unit Firmware V01.00	IEC 61850-8-1 block 1, 2, 6+, 9a, 13	2012-11
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
Siemens	UK	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	UK	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

MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
Siemens	UK	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
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	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
Siemens	Germany	7XV5673 SICAM I/O Unit, Firmware V02.01	IEC 61850-8-1 block 1, 2, 6+, 9ab, 13	2012-09
Alstom Grid	UK	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



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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
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 NV10P 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 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



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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
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
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
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

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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	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
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
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

MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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
Siemens	UK	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	UK	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



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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
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	SETRON T 7KG966 Multifunctional Transducer Firmware V02.00.04	IEC 61850-8-1 block 1, 2, 5, 6+, 13	2011-08
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

MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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-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
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
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



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MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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
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

MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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
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



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MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
Remsdaq	UK	Callisto ^{nx} 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
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

MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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	UK	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
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



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MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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	UK	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	UK	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	UK	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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MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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	UK	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	UK	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	UK	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



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MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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
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	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
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
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

MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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
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	G11F4 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



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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
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



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MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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 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
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

MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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
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
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
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	UK	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	UK	MiCOM P741 Numerical Busbar Protection Firmware 40A	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-06
Areva T&D	UK	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



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MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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	UK	MiCOM P145 Feeder Management Relay	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-04
Areva T&D	UK	MiCOM P442/P444 Distance Relay	IEC 61850-8-1 block 1, 2, 5, 9ab, 13, 14	2007-04
Areva T&D	UK	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
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	UK	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



IEC 61850 Test Register

MANUFACTURER	COUNTRY	SERVER DEVICE	PROTOCOL	DATE
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
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	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

The most recent list and all corresponding IEC 61850 certificates can be found at:

<http://www.ucaiug.org/org/TechnicalO/Testing/UCAlug%20Testing%20Quality%20Assurance%20Program/Forms/AllItems.aspx>.

If you don't have a login account you can create a free guest account on the home page.

For more information on the test results please contact the manufacturer directly.

Test Register for IEC 61850 Ethernet Switches

MANUFACTURER	COUNTRY	ETHERNET SWITCH	TEST SCOPE	DATE
RuggedCom	USA	RX1500	Functional test	2012-08
GW Delight	China	GIS2528	Functional test	2012-05
RuggedCom	USA	RS900	Functional test IEC 61850-3 full	2011-07
NARI	China	PCS-9882	Functional test	2011-03
NARI	China	EPS6028E	Functional test	2011-02
N-Tron	USA	712FX4 and 710FX2	Functional test	2011-02
Etherwan	Taiwan	EX87244	Functional test IEC 61850-3 full	2010-12
Beijing Omate	China	Omate 6000	Functional test	2010-08
PT-Switch	China	M7000	Functional test	2010-08
Cisco	USA	Surge 16/24	Functional test IEC 61850-3 full	2010-06
Golden Highway	China	IETH8008-F4C4	Functional test IEC 61850-3 full	2010-04
Nexans	Germany	iSwitch G 1043E SFP-3VI PRO3	Functional test	2010-04
NARI	China	PCS-9882	Functional test	2010-03
SixNet	USA	Sixnet EL228	Functional test IEC 61850-3 full	2010-03
Wiscom	China	WISLINK W-2000	Functional test IEC 61850-3 full	2010-01
Cisco	USA	IE-3000	Functional test IEC 61850-3 full	2009-08
GE Multilin	Canada	ML2400	Functional test IEC 61850-3 full	2009-08
Kyland	China	SICOM3024P	Functional test IEC 61850-3 full	2009-01
GarrettCom	USA	Magnum 6K	Functional test	2008-10
MOXA	Taiwan	PT-7710	Functional test IEC 61850-3 full	2008-04
Hirschmann	Germany	MACH-1030	Functional test IEC 61850-3 full	2007-10
MOXA	Taiwan	PT-7324	Functional test IEC 61850-3 full	2007-10
MOXA	Taiwan	PT-7728	Functional test IEC 61850-3 full	2007-10
RuggedCom	USA	RSG2100	Functional test IEC 61850-3 full	2006-10
uSysCom	Spain	3SWT	Functional test IEC 61850-3 limited	2006-04

For more information on the test results please contact the manufacturer directly.



IEC 61850 Test Register

Annex A: Overview of ACSI services per conformance block for IEC 61850 Ed1 Server Devices

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
8a: GSSE publish	SendGSSEMessage (publish)	GetGsCBValues SetGsCBValues
8b: GSSE subscribe	SendGSSEMessage (subscribe)	
8c: GSSE mngt	GetGsReference, GetGSSEDataOffset	
9a: GOOSE publish	SendGOOSEMessage (publish)	GetGoCBValues SetGoCBValues
9b: GOOSE subscribe	SendGOOSEMessage (subscribe)	
9c: GOOSE mngt	GetGoReference, GetGOOSEElementNumber	
10: Sampled values part 9-1 pub/sub	<no ACSI service associated>	
11: Sampled values part 9-2 pub/sub	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