

## Issues

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
3101	IEC 61850 User Feedback Task Force	Bug	3	TissueDB	Resolved	Normal	IEC 61850-7-4	IEC61850.Tissue #1755 Event driven schedules – Add DO to stop schedule by event	11/23/2021 08:34 AM
611	IEC 61850 User Feedback Task Force	Bug	5	RTE	In Progress	Normal	IEC 61850-7-4 / IEC 61850-80-6	Need a new DO (ENUM) to identify the protocol used for the SCADA exchange, in LN ITCI	05/11/2021 09:59 AM
442	IEC 61850 User Feedback Task Force	Bug	5	Vattenfall	Resolved	High	IEC 61850-6-100	Mapping LNode (substation section) to LN (IED section)	03/15/2022 09:10 AM
439	IEC 61850 User Feedback Task Force	Bug	2	Vattenfall	In Progress	High	IEC 61850-6	How to add utility process name to DOs	02/11/2021 06:37 AM
5374	IEC 61850 User Feedback Task Force	Feature		RTE	Triage	Normal	IEC 61850-7-4	Creation of a new LN for protection function	07/19/2022 02:46 AM
5336	IEC 61850 User Feedback Task Force	Feature	4	TF 61850-80-6	In Progress	Normal	IEC 61850-7-2; IEC 61850-8-1, 80-6	Extension of the AddCause required to reflect communication issues in multi level control	04/26/2022 09:20 AM
5331	IEC 61850 User Feedback Task Force	Feature		SCL IOP 2021	Resolved	Normal	IEC 61850-6	Multiple LNodes implemented by same LN	03/29/2022 09:14 AM
5124	IEC 61850 User Feedback Task Force	Feature	3	TF 61850-80-6	In Progress	Normal	IEC 61850-80-6	Telemonitoring blocking	12/21/2021 09:26 AM
5123	IEC 61850 User Feedback Task Force	Feature	2	TF 61850-80-6	Resolved	Normal	IEC 61850-90-28	ACSI service for link supervision on application level	06/21/2022 08:35 AM
5122	IEC 61850 User Feedback Task Force	Feature	1	TF 61850-80-6	Resolved	Normal	IEC 61850-90-28	New LN in LN group L to reflect the status of TPAA between Proxy/Gateway and IED	02/09/2022 07:06 AM
5091	IEC 61850 User Feedback Task Force	Feature	10	H30	In Progress	Normal	IEC 61850-2	Devices types/acronyms	02/09/2022 10:30 AM
5088	IEC 61850 User Feedback Task Force	Feature	12	MH	Resolved	Normal	IEC 61850-7-4 Ed2.1 ,7-5	Clarifications on the local/remote concept 8/8	02/14/2022 03:56 AM
5087	IEC 61850 User Feedback Task Force	Feature	11	MH	Resolved	Normal	IEC 61850-7-4 Ed2.1 ,7-5	Clarifications on the local/remote concept 7/8	02/14/2022 03:55 AM
5086	IEC 61850 User Feedback Task Force	Feature	10	MH	Resolved	Normal	IEC 61850-7-4 Ed2.1 ,7-5	Clarifications on the local/remote concept 6/8	02/14/2022 03:56 AM
5085	IEC 61850 User Feedback Task Force	Feature	9	MH	Resolved	Normal	IEC 61850 7-1 / 7-4 Ed2.1,7-5	Clarifications on the local/remote concept 5/8	02/14/2022 03:57 AM
5084	IEC 61850 User Feedback Task Force	Feature	8	MH	Resolved	Normal	IEC 61850-7-1 Ed2.1,7-5	Clarifications on the local/remote concept 4/8	02/14/2022 03:57 AM
5083	IEC 61850 User Feedback Task Force	Feature	7	MH	Resolved	Normal	IEC 61850-7-1 Ed2.1,7-5	Clarifications on the local/remote concept 3/8	02/14/2022 03:57 AM
5082	IEC 61850 User Feedback Task Force	Feature	6	MH	Resolved	Normal	IEC 61850-7-4,7-5	Clarifications on the local/remote concept 2/8	02/14/2022 03:57 AM
5081	IEC 61850 User Feedback Task Force	Feature	5	MH	Resolved	Normal	IEC 61850-7-1 Ed2.1/7-4 Ed2.1 Annex B/7-500	Clarifications on the local/remote concept 1/8	02/14/2022 02:50 AM

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5080	IEC 61850 User Feedback Task Force	Feature	4	MH	Resolved	Normal	IEC 61850-7-1 Ed2.1 ,7-500	Clarification on the ctlModel 3/3	02/14/2022 04:00 AM
5079	IEC 61850 User Feedback Task Force	Feature	3	MH	Resolved	Normal	IEC 61850-7-1 Ed2.1 , 7-500	Clarification on the ctlModel 2/3	02/14/2022 03:59 AM
5078	IEC 61850 User Feedback Task Force	Feature	2	MH	Resolved	Normal	IEC 61850-7-1 / 7-2 Ed2.1 / 7-5/7-500	Clarification on the ctlModel 1/3	02/09/2022 07:11 AM
5077	IEC 61850 User Feedback Task Force	Feature	1	MH	Resolved	Normal	IEC61850 7-1	Location of SGCB in LD structures	02/09/2022 10:06 AM
677	IEC 61850 User Feedback Task Force	Feature	50	RTE	In Progress	Normal	IEC 61850-7-4	Impact of IEC 61869-13 (SAMU)	06/21/2022 02:04 AM
631	IEC 61850 User Feedback Task Force	Feature	44	RTE	Triage	Normal		Evolution of LN PSCH to build switching on information	08/17/2021 08:03 AM
627	IEC 61850 User Feedback Task Force	Feature	29	RTE	Resolved	Normal	IEC 61850-7-4	Activation and deactivation of a function by configuration.	03/02/2021 09:53 AM
623	IEC 61850 User Feedback Task Force	Feature	19	RTE	In Progress	Normal		New LN of group L (as "LPLE") representing a group of LED	03/02/2021 09:42 AM
622	IEC 61850 User Feedback Task Force	Feature	18	RTE	Triage	Normal	IEC 61850-7-4	Parameters not available in standardized LN	06/20/2022 03:56 AM
621	IEC 61850 User Feedback Task Force	Feature	17	RTE	In Progress	Normal	IEC 61850-7-4/7-500	New controllable DO in RREC to define the mode of the recloser of the circuit breaker	05/11/2021 10:08 AM
620	IEC 61850 User Feedback Task Force	Feature	16	RTE	Triage	Normal		New LN LPDO / LPDI in IEC 61850-7-5	06/20/2022 03:55 AM
619	IEC 61850 User Feedback Task Force	Feature	15	RTE	Resolved	Normal		New LN of group L (as "LTED") to represent the dynamic topology of the substation.	03/02/2021 09:29 AM
612	IEC 61850 User Feedback Task Force	Feature	11	RTE	Resolved	Normal	IEC 61850-7-4	Need to create a new LN of group P (Protection), as "PCDP" to represent the Pole Discrepancy Protection.	07/05/2022 08:17 AM
608	IEC 61850 User Feedback Task Force	Feature	7	H30	In Progress	Normal	IEC 61850-90-xx	Comprehensive set of requirements covering validation and supervision of all IEC 61850 communications	06/21/2022 02:09 AM
602	IEC 61850 User Feedback Task Force	Feature	1742	IOP_2019	Resolved	Normal	IEC 61850-9-3	Merging Unit standard requires MU clock to jump on PTP time jumps, which is not true for Boundary Clocks.	07/05/2022 08:52 AM
599	IEC 61850 User Feedback Task Force	Feature	12	IOP_2019	Resolved	Normal		ICD files do not match requirements (several issues) - increase in engineering efforts	07/05/2022 08:48 AM
597	IEC 61850 User Feedback Task Force	Feature	1120	IOP_2019	Resolved	Normal	TF Communication supervision	SCTs updating the confRev of 9-2 LE Sampled Value streams - problem with subscription to test tool SV injection	07/05/2022 08:46 AM
590	IEC 61850 User Feedback Task Force	Feature	1800	IOP_2019	In Progress	Normal	IEC 61850-6	ICT fails to check validity of the SCD file regarding the IED constraints	07/05/2022 08:30 AM

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584	IEC 61850 User Feedback Task Force	Feature	1122	IOP_2019	Resolved	Normal	IEC 61850-6	SCL validation - Should all name parts of PhV be contained in the doName?	07/05/2022 08:20 AM
578	IEC 61850 User Feedback Task Force	Feature	50	ENTSO-E	In Progress	Normal	IEC 61850-7-4	Busbar protection: End Fault protection - model definition required.	02/11/2021 07:10 AM
576	IEC 61850 User Feedback Task Force	Feature	48	ENTSO-E	In Progress	Normal	IEC 61850-7-4	Distance protection: Distance protection - 1 phase and 3 phase zone extension signals are missing	02/11/2021 07:11 AM
575	IEC 61850 User Feedback Task Force	Feature	47	ENTSO-E	In Progress	Normal	IEC 61850-7-4	Protection scheme: Reversal current logic LN/DO/DA missing	02/11/2021 07:13 AM
574	IEC 61850 User Feedback Task Force	Feature	46	ENTSO-E	In Progress	Normal	IEC 61850-7-4	Protection scheme: Weak end infeed (1 phase and 2/3 phase operate missing)	02/11/2021 07:13 AM
573	IEC 61850 User Feedback Task Force	Feature	45	ENTSO-E	In Progress	Normal	IEC 61850-7-4	Tap Changer Supervision: Tap discrepancy (3 pole transformer case)	02/11/2021 07:14 AM
438	IEC 61850 User Feedback Task Force	Feature	1	Vattenfall	In Progress	Normal	IEC 61850-6 (-100)	The engineering-process is well defined for a green field / new IEC 61850 substation but needs clarification for refurbishment	02/11/2021 07:59 AM
409	IEC 61850 User Feedback Task Force	Feature	4.1	ENTSO-E	In Progress	Normal		Too loose or non existing guideline for organization of structure tree (construction of each LD, LN etc)	02/11/2021 08:00 AM
676	IEC 61850 User Feedback Task Force	Support	49	RTE	Resolved	Normal	IEC 61850-7-5	Clarification of addCause	06/14/2022 10:44 AM
675	IEC 61850 User Feedback Task Force	Support	48	RTE	Resolved	Normal	IEC 61850-7-4 Ed2.1	Clarification of blocked mode	09/29/2021 03:50 AM
660	IEC 61850 User Feedback Task Force	Support	1	WG10	In Progress	Normal		IED model documentation	06/16/2021 09:32 AM
647	IEC 61850 User Feedback Task Force	Support	57	ENTSO-E	Resolved	Normal	IEC 61850-7-5, IEC61850-7-500	Single phase and multi phase trip indication for the autorecloser	04/13/2021 09:42 AM
632	IEC 61850 User Feedback Task Force	Support	8	H30	In Progress	High	IEC 61850-9-2, IEC 61869-9	APPID 0x4000 - Sampled Values	06/16/2021 09:42 AM
624	IEC 61850 User Feedback Task Force	Support	21	RTE	Triage	Normal	IEC 61850-6	Clarification of using of ValKind, VallImport.	03/02/2021 09:44 AM
607	IEC 61850 User Feedback Task Force	Support	6	H30	In Progress	Normal	IEC 61850-80-6 (90-2)	LPHD.Sim management	06/21/2022 02:09 AM
583	IEC 61850 User Feedback Task Force	Support	55	ENTSO-E	Triage	Normal	IEC 61850-7-4	Autoreclosure: Autoreclosure - 3ph closing command missing	02/16/2021 04:00 AM
582	IEC 61850 User Feedback Task Force	Support	54	ENTSO-E	Triage	Normal	IEC 61850-7-4, 7-5	Synchrocheck: Synchrocheck - missing signals	02/16/2021 04:11 AM
581	IEC 61850 User Feedback Task Force	Support	53	ENTSO-E	Triage	Normal	IEC 61850-7-4, 7-5	S/S related applications: Disturbance recorder - communication session active	02/16/2021 04:11 AM
580	IEC 61850 User Feedback Task Force	Support	52	ENTSO-E	Resolved	Normal	IEC 61850-7-4, 7-5	Voltage protection: Undervoltage protection - 3ph operate	03/01/2022 09:09 AM

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579	IEC 61850 User Feedback Task Force	Support	51	ENTSO-E	Resolved	Normal	IEC 61850-7-4, 7-500	Voltage protection: Overvoltage protection - 3ph operate	03/01/2022 09:09 AM
572	IEC 61850 User Feedback Task Force	Support	44	ENTSO-E	Resolved	Normal	IEC 61850-7-4, 7-500	S/S related applications: Auxiliary circuit supervision	03/01/2022 08:37 AM
569	IEC 61850 User Feedback Task Force	Support	41	ENTSO-E	Triage	Normal	IEC 61850-7-4	S/S related applications: Access security system	02/16/2021 04:13 AM
566	IEC 61850 User Feedback Task Force	Support	38	ENTSO-E	Triage	Normal	IEC 61850-7-420	S/S related applications: Diesel aggregat alarm	02/16/2021 04:08 AM
559	IEC 61850 User Feedback Task Force	Support	31	ENTSO-E	Triage	Normal	IEC 61850-7-4	Busbar protection: ARC detection protection	02/16/2021 04:09 AM
558	IEC 61850 User Feedback Task Force	Support	30	ENTSO-E	Triage	Normal	IEC 61850-7-4	Busbar protection (BBP): Diff/Kirchoff BBP	02/16/2021 04:10 AM
556	IEC 61850 User Feedback Task Force	Support	3	H30	In Progress	Normal	IEC 61850-90-20	Rendundant CT/TT measurements	06/21/2022 02:09 AM
555	IEC 61850 User Feedback Task Force	Support	2	H30	Triage	Normal		Link Failover reliability problem - implication to protection application	02/09/2022 09:13 AM
554	IEC 61850 User Feedback Task Force	Support	1	H30	Resolved	Normal		Performance requirement for SV and implications to Protection applications	12/21/2021 08:56 AM
553	IEC 61850 User Feedback Task Force	Support	34	IOP_2017/55	Resolved	Normal	IEC 61850-9-3	IEC/IEEE 61850-9-3 should clarify the meaning and use of TimeTraceable and FrequencyTraceable	06/21/2022 09:26 AM
552	IEC 61850 User Feedback Task Force	Support	33	IOP_2017/54	Resolved	Normal	IEC 61850-9-3	Disruption of network when TC are not set to the correct domain	06/21/2022 09:26 AM
551	IEC 61850 User Feedback Task Force	Support	32	IOP_2017/53	Resolved	Normal	IEC 61850-9-3	IEC/IEEE 61850-9-3 - Sync messages have to be padded to the same length as the Pdelay_Req/Pdelay_Resp messages	06/21/2022 09:26 AM
550	IEC 61850 User Feedback Task Force	Support	31	IOP_2017/52	Resolved	Normal	IEC 61850-9-3	Incorrect variance adjustment for Time Masters with degradation (loss of GPS)	06/21/2022 09:26 AM
549	IEC 61850 User Feedback Task Force	Support	30	IOP_2017/51	Resolved	Normal	IEC 61850-9-3	Standard should clarify the relation between the PTP clock clockQuality signals and the timeQuality in TimeStamp	06/21/2022 09:26 AM
548	IEC 61850 User Feedback Task Force	Support	29	IOP_2017/50	Resolved	Normal	IEC 61850-9-3	The start-up behaviour of Boundary Clocks	06/21/2022 09:26 AM
547	IEC 61850 User Feedback Task Force	Support	28	IOP_2017/49	Resolved	Normal	IEC 61850-9-3	Requirement for Boundary Clocks to adjust the clock accuracy to reflect their actual accuracy, not that of their grandmaster	06/21/2022 09:26 AM
525	IEC 61850 User Feedback Task Force	Support	6	IOP_2017/8	Resolved	Normal	IEC 61850-6	IEC 61850-6 does not allow the authentication configuration (none, password, weak, strong or certificate) to be used for Client	06/21/2022 09:17 AM
519	IEC 61850 User Feedback Task Force	Support	1	UFTF	Resolved	Normal	90-16	Optionality in DOI NamPlt, PhyNam resp. in ICD/IID file: IED.manufacturer, .IED.type, makes a device recognition in a machine to	06/21/2022 09:20 AM

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434	IEC 61850 User Feedback Task Force	Support	25	ENTSO-E	In Progress	Normal		Freedom of choice what IEC 61850 services are to be tested seem too open. The vendor can select exactly what UCA accredited test	04/02/2021 01:30 PM
424	IEC 61850 User Feedback Task Force	Support	15	ENTSO-E	In Progress	Normal	6	Vendor Tools shall allow (vendor independant) Integration tools doing engineering based on ICD Files, thus allowing them to in	02/03/2021 02:49 PM
419	IEC 61850 User Feedback Task Force	Support	10.2	ENTSO-E	In Progress	Normal	IEC 61850-7-2	Also many other features of GOOSE messaging are left to the manufacturer to choose.	06/14/2022 09:33 AM
417	IEC 61850 User Feedback Task Force	Support	9	ENTSO-E	In Progress	Normal	6-100	There is no mechanism proposed by the Standard to positively identify data points in the data model. For instance PTOC can refer	02/03/2021 02:49 PM
5926	General Testing Issues	Improvement			New	Normal		Review ICT TP	08/09/2022 10:12 AM
5921	General Testing Issues	Improvement			New	Normal		Start using Vendor and Lab Submission Information	08/09/2022 10:20 AM
5876	IEC 61850 User Feedback Task Force	Improvement		FNN Germany	Resolved	Normal	IEC 61850-7-4 Ed.3	Proposal of a new LN class ASWI	08/02/2022 08:56 AM
5372	IEC 61850 User Feedback Task Force	Improvement		RTE	Resolved	Normal	IEC 61850-7-1	Simultaneous change of InRef.setSrcRef and InRef.setSrcCB for dynamic commutation	06/07/2022 09:23 AM
5335	IEC 61850 User Feedback Task Force	Improvement		Dustin Tessier	Resolved	Normal	IEC 61850-90-4	Adding Normative Requirements & Conformance Testing Pertaining to Broadcast Storms	06/14/2022 09:22 AM
5330	IEC 61850 User Feedback Task Force	Improvement		SCL IOP 2021	Resolved	Normal	IEC 61850-6, 6-100	LNode iedName attribute usage needs to be clarified	03/29/2022 09:00 AM
5329	IEC 61850 User Feedback Task Force	Improvement		SCL IOP 2021	Resolved	Normal	IEC 61850-6	Clarify iedType attribute usage in DataTypeTemplates	04/12/2022 09:20 AM
5323	IEC 61850 User Feedback Task Force	Improvement	3	WG17	Resolved	Normal	IEC 61850-7-4,7-5	Schedules - allow updates to single values while schedules are running	05/10/2022 09:18 AM
5322	IEC 61850 User Feedback Task Force	Improvement	2	WG17	Resolved	Normal	IEC 61850-7-4,7-5	Schedules - add optional data objects to support irregular interval schedules	04/12/2022 09:12 AM
5321	IEC 61850 User Feedback Task Force	Improvement	1	WG17	Resolved	Normal	IEC 61850-7-4,7-5	Schedules - allow 3 values per time point	06/20/2022 03:49 AM
5089	IEC 61850 User Feedback Task Force	Improvement	13	MH	Resolved	Normal	IEC 61850 7-3 Ed2.1	Extension of CDC ASG	05/10/2022 09:26 AM
3100	IEC 61850 User Feedback Task Force	Improvement	2	TissueDB	Resolved	Normal	IEC 61850-7-4	IEC61850.Tissue #1754 Event driven schedules - Type of InSyn missing	11/23/2021 08:33 AM
3099	IEC 61850 User Feedback Task Force	Improvement	1	TissueDB	Resolved	Normal	IEC 61850-7-4	IEC61850.Tissue #1756 Event driven schedules – Extend description	11/23/2021 08:32 AM
3098	IEC 61850 User Feedback Task Force	Improvement	1	WG17	In Progress	Normal		Need to Change 8-1 to allow multiple DOs to be written	03/29/2022 09:36 AM
673	IEC 61850 User Feedback Task Force	Improvement	47	RTE	Resolved	Normal		CPU monitoring	09/29/2021 03:50 AM

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672	IEC 61850 User Feedback Task Force	Improvement	46	RTE	Resolved	Normal	IEC 61850-90-4	Create DO indicating the source of synchronisation	06/16/2022 03:51 PM
667	IEC 61850 User Feedback Task Force	Improvement	4	WG10	Resolved	Normal	IEC 61850-7-4	Report of current active setting group	06/30/2021 06:56 AM
633	IEC 61850 User Feedback Task Force	Improvement	1	ZIV	In Progress	Normal	IEC 61850-7-2	Initial values of paramRev and valRev	04/13/2021 09:50 AM
630	IEC 61850 User Feedback Task Force	Improvement	43	RTE	Resolved	Normal	IEC 61850-7-5/7-500	XCBR LN new DO to describe withdrawable circuit breaker	02/09/2022 08:05 AM
629	IEC 61850 User Feedback Task Force	Improvement	35	RTE	Resolved	Normal	IEC TR 61850-90-29	TCTR and TVTR new DO to identify physical terminal allocation in the IED	07/05/2022 08:15 AM
626	IEC 61850 User Feedback Task Force	Improvement	23	RTE	In Progress	Normal	IEC 61850-6	Extension of P-type to describe connexion type (PhysCon)	03/02/2021 09:51 AM
625	IEC 61850 User Feedback Task Force	Improvement	22	RTE	Resolved	Normal	IEC 61850-7-4	LN RADR evolution	03/02/2021 09:49 AM
618	IEC 61850 User Feedback Task Force	Improvement	14	RTE	Triage	Normal	IEC 61850-90-3	Evolution of DO SumSqA of LN SPTRExt	06/20/2022 03:54 AM
610	IEC 61850 User Feedback Task Force	Improvement	2	RTE	Resolved	Normal	IEC 61850-6	Mapping of another phases system description to the generic phases phsA, phsB, phsC	05/11/2021 10:13 AM
605	IEC 61850 User Feedback Task Force	Improvement	4	H30	In Progress	Normal	IEC 61850-10-3	Test and Simulation mode questions	06/21/2022 02:09 AM
441	IEC 61850 User Feedback Task Force	Improvement	4	Vattenfall	Resolved	High	IEC 61850-6-100	Limitations of one to one mapping between LNode and LN	03/15/2022 11:08 AM
5948	Server	Issues			New	Normal		sSvp22 detail is missing in TP1.2 (editorial)	08/16/2022 06:23 AM
5917	Server	Issues			In Progress	Urgent		'Expected result' for some test cases of CB9b: GOOSE subscribe	08/09/2022 10:21 AM
5914	Server	Issues			In Progress	Normal		Verify that LPHD.Sim is not affected by LLN0.Beh	08/09/2022 08:59 AM
5913	Server	Issues			Resolved	Normal		sSrvN1e and sSrvN3 change condition SCL FC=CF/DC/SP with valKind=Set	08/09/2022 08:48 AM
5912	Server	Issues			In Progress	Normal		sSrv6 checking the read-only part is always applicable	08/09/2022 08:47 AM
5910	Server	Issues			In Progress	Normal		Need to test that IEDs support 1 Step and 2 Step clocks: IOP 2022	08/09/2022 08:30 AM
5907	Server	Issues			Resolved	Normal		sCtl26 - Cancel a direct control object	08/09/2022 08:24 AM
5906	Server	Issues			Rejected	Normal		sCnf51 at least one LPHD	08/11/2022 01:55 AM
5905	Server	Issues			In Progress	Normal		sSrvN4 is mandatory, used SetDataValues service is optional in PICS and may not be not supported	08/09/2022 08:20 AM
5371	Server	Issues			Resolved	Normal		Scope of the test is limited to a given NSD release.	06/29/2022 02:11 AM
5362	Server	Issues			Resolved	Normal		sGop2 and sGop4 check minimum MinTime and minimum MaxTime	08/09/2022 08:45 AM

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5356	Server	Issues			Resolved	Normal		PIXIT entries mandated by 61850-8-1 but missing in PIXIT	06/02/2022 03:02 PM
5347	Server	Issues			In Progress	Normal		How should time correlated GOOSE change status in GOOSE Performance test	08/09/2022 08:41 AM
5344	Server	Issues			Rejected	Normal		sBr29 power-up the IED is missing	06/02/2022 04:12 PM
5343	Server	Issues			Resolved	Normal		sGosN2 remove PIXIT Gs5	06/02/2022 03:05 PM
5337	Server	Issues			Resolved	Normal		Independence of GOOSE subscriber timeouts is not tested	06/02/2022 03:06 PM
5328	Server	Issues			Resolved	Normal		sFt2ab issues with "directory" files	06/02/2022 03:07 PM
5327	Client	Issues			Resolved	Normal		PIXIT - add processing/mapping of quality bits	06/28/2022 09:44 AM
5326	Server	Issues			Resolved	Normal		sSBOes8 incorrectly requires addCause=blocked-by-mode	06/14/2022 08:34 AM
5319	Server	Issues			In Progress	Normal		T1782 sCtl7 addcause "inconsistent-parameters" when check=00 not-supported	08/09/2022 08:43 AM
5138	Server	Issues			Rejected	Normal		sBr13 without pre-assignment	12/13/2021 04:43 AM
5120	SCL Tooling	Issues			Resolved	Normal		LGOS/LSVS reference with functional naming (SCL)	08/09/2022 08:40 AM
3115	Client	Issues			Resolved	Normal		Forward compatibility to Amd1 server with pre-assigned URCB/BRCB	06/14/2022 08:35 AM
748	Server	Issues			Resolved	Normal		sGos9 use SPS when INS subscribe is not supported	07/27/2021 10:07 AM
658	Client	Issues			Resolved	Normal		Verify Client does process a report before RptEna write respond+	06/01/2021 08:23 AM
657	Server	Issues			In Progress	Low		Publish/subscribe enum with negative value	08/09/2022 08:38 AM
656	Server	Issues			In Progress	Low		Publish/subscribe enum with value > 127	08/10/2022 11:16 AM
654	Server	Issues			In Progress	Low		Publish/subscribe minimum length data GOOSE	08/09/2022 08:35 AM
653	Server	Issues			In Progress	Low		Subscriber can use maximum number of dataset elements	08/09/2022 08:34 AM
652	Server	Issues			In Progress	Normal		Publisher can use maximum number of dataset elements	08/09/2022 08:34 AM
651	Server	Issues			In Progress	Low		Verify subscriber can accept maximum size GOOSE	08/09/2022 08:32 AM
636	Client	Issues			Resolved	High		Mandate RCB reservation for Ed2.0 client and Amd1 server	04/20/2021 02:23 PM
5949	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		e2TANGO-800	08/16/2022 06:35 AM
5920	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Kalki SYNC 3000 Edition 2 Client	08/05/2022 10:52 AM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
5919	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DS Agile aView Edition 2 Client	08/05/2022 10:39 AM
5918	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOMP40AgileP44T Edition 2 Server	08/04/2022 06:56 AM
5916	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		XJ Electric Co., Ltd. WYD-811 Microcomputer Tele-control Unit - Edition 2 Client	07/31/2022 12:59 PM
5909	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		VITZRO EM CO., LTD. VIPAM-PB	07/24/2022 03:11 PM
5908	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		AEGIS SERIES Numerical Protection Relay Protection Relay	07/24/2022 03:11 PM
5881	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DS Agile aView System HMI [GE Renewable Energy]	07/12/2022 03:27 PM
5879	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ZLFC [ZIV Aplicaciones y Tecnología SL]	07/05/2022 07:37 PM
5874	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		xGrids Transfer KPG-v1 [KEPCO Knowledge Data & Network Co., Ltd.]	06/28/2022 12:22 PM
5873	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		xGrids Transfer KPG-v1 [KEPCO Knowledge Data & Network Co., Ltd.]	06/28/2022 12:23 PM
5872	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		UR N60 [GE Renewable Energy]	06/28/2022 10:41 AM
5377	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MM300 [GE Renewable Energy]	06/10/2022 08:32 AM
5376	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		EVRC2A-NT-610 [ENTEC Electric & Electronic Co., Ltd.]	06/08/2022 10:50 AM
5373	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MULTILIN B90 [M/s. GE T&D INDIA LIMITED]	06/01/2022 01:44 PM
5370	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Multilin D60 [GE T&D India Limited]	05/29/2022 08:44 PM
5369	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Multilin L90 [GE T&D India Limited]	05/27/2022 12:37 PM
5368	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		VIPAM-ARC [VITZRO EM CO., LTD.]	05/27/2022 09:40 AM
5367	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GRW200 [TOSHIBA Energy Systems & Solutions Corporation]	05/25/2022 09:28 AM
5366	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MUST DM624 [WOODAM TECH CO., LTD.]	05/18/2022 09:33 AM
5364	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		AQ-250: AQ-F255 [Arcteq Relays Ltd.]	05/17/2022 04:45 PM
5363	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		NP950: NPF955 [ICE SAS]	05/17/2022 04:40 PM



#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
5361	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Mirage Servidor IEC 61850 [Controles S.A.]	05/12/2022 10:10 AM
5360	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		NC61850FEP [NexChal Co., Ltd.]	05/12/2022 09:52 AM
5359	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YH-ISD xGrids Transfer [YOUHO Electric Ind CO., Ltd.]	05/18/2022 08:51 AM
5358	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YH-ISD xGrids Transfer [YOUHO Electric Ind CO., Ltd.]	05/11/2022 08:57 AM
5355	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Ingepac EFx BD [Ingeteam Power Technology, S.A.]	05/05/2022 01:33 PM
5354	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		XMR-P [Thytronic S.p.A.]	05/05/2022 12:55 PM
5353	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		XMR-P [Thytronic S.p.A.]	05/05/2022 12:49 PM
5352	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TCTCORE 61850 [The Core Tech Inc.]	05/05/2022 11:31 AM
5351	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		BCU-50-M [SAE IT-systems GmbH & Co. KG]	05/02/2022 10:29 AM
5350	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		G60 [M/s. GE T&D INDIA LIMITED]	05/02/2022 10:05 AM
5349	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MULTILIN T60 [M/s. GE T&D INDIA LIMITED]	05/02/2022 10:07 AM
5348	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SAMU-1000 [KEPCO KDN]	04/29/2022 02:30 PM
5342	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ZSC-100A [ZenithTek Co., Ltd.]	04/08/2022 03:23 PM
5338	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P4 Agile P746 [UK Grid Solutions Limited]	04/04/2022 01:58 PM
5332	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy MiCOM P643 [Schneider Electric Industries SAS]	03/28/2022 04:47 PM
5325	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		AVEVA Telemetry Server [AVEVA Solutions Ltd.]	03/21/2022 12:42 PM
5324	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SuperTAPP SG [Fundamentals Ltd]	03/15/2022 08:24 AM
5317	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		StreamBridge [Elvexys SA]	02/16/2022 10:32 AM
5311	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM Agile P345 [GE T&D INDIA LIMITED]	02/07/2022 12:11 PM
5294	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MPU55/MPU56 [Nexus Controls LLC]	01/27/2022 03:23 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
5291	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		RTU194 [Controles S.A.]	01/24/2022 01:11 PM
5290	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		saTECH SCU-HMI 122 [Arteche/SAC]	01/24/2022 01:14 PM
5287	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PCS-221S [NR Electric Co., Ltd.]	06/13/2022 02:34 PM
5152	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MCS-8500 [XJ Electric Co., Ltd.]	01/16/2022 09:55 AM
5150	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ENTEK E2R2(G)-1 [ENTEELS LLC]	12/15/2021 02:23 PM
5149	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ARIS-2305 [Prosoft-Systems Ltd.]	12/15/2021 02:11 PM
5148	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIPROTEC 5 7SJ82 with variants [Siemens AG]	12/17/2021 02:12 PM
5147	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIPROTEC 5 6MU85 [Siemens AG]	06/13/2022 02:59 PM
5146	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIPROTEC 5 Compact 7SX800 [Siemens AG]	12/17/2021 02:16 PM
5145	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIPROTEC 5 7SL87 with variants [Siemens AG]	06/13/2022 03:00 PM
5144	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SM160-02M/D [Prompibor Plant Limited]	12/15/2021 10:59 AM
5141	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		USPD 248.M2 [SYSTEL LLC]	12/13/2021 10:00 AM
5140	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ARIS-C303 Bay controller [Prosoft-Systems Ltd.]	12/13/2021 09:51 AM
5139	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		saTECH SCU-HMI 122 [Arteche/SAC]	12/13/2021 09:41 AM
5137	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		IM1 [HYOSUNG CORPORATION]	06/13/2022 03:02 PM
5136	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SAMU-1000 [KEPCO KDN]	06/13/2022 05:09 PM
5135	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TOPAZ DRP-35 [PLC Technology]	12/06/2021 03:22 PM
5134	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		P0101 [NIPOM]	12/06/2021 03:16 PM
5133	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		AVANT K400 [Prosoft-Systems Ltd.]	02/16/2022 12:34 PM
5132	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		BIM 2235.89.16/16 ADP01 [STC GOSAN Ltd.]	12/06/2021 03:02 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
5129	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		WXH-803 [XJ Electric Co., Ltd.]	11/30/2021 04:37 PM
5128	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		WCB-822C [XJ Electric Co., Ltd.]	11/30/2021 04:31 PM
5126	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MVI56E-61850C [ProSoft Technology, Inc]	11/23/2021 09:33 AM
5125	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MVI56E-61850C [ProSoft Technology, Inc]	11/23/2021 09:28 AM
5118	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TwinCarp [Hsiang Cheng Electric Corp]	11/10/2021 10:34 AM
5117	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ProField-HE Substation Automation Gateway [Prolan Power Zrt]	11/08/2021 12:45 PM
5116	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ENIP-2-45/100-220-A2E4x2-21 [Engineering Center Energoservice]	11/05/2021 12:02 PM
5115	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TESLA 4000 [M/s. Phase Power Protection Private Limited]	11/03/2021 04:15 PM
5114	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		APCG-42 Data Concentrator/RTU [Ashida Electronics Pvt. Ltd.]	10/29/2021 09:34 AM
5106	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SA-ICD [Hyosung Heavy Industries Co., Ltd.]	10/18/2021 08:16 AM
5096	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TwinCarp [Hsiang Cheng Electric Corp]	09/30/2021 11:26 AM
5075	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		LK_SAICD [LK Eleven Co., Ltd]	09/16/2021 12:52 PM
5074	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		LK_SAOPD [LK Eleven Co., Ltd]	09/16/2021 12:46 PM
5073	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		LK_SALID [LK Eleven Co., Ltd]	09/16/2021 10:07 AM
5072	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		LK_SAIMD [LK Eleven Co., Ltd]	09/15/2021 07:00 PM
5071	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ENCS-3m.648-1-3 [Engineering Center Energoservice]	09/15/2021 01:06 PM
5070	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy MiCOM P546 [Schneider Electric Industries SAS]	09/15/2021 12:35 PM
5069	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy MiCOM P139 [Schneider Electric Industries SAS]	09/15/2021 12:13 PM
3114	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy MiCOM P145 [Schneider Electric Industries SAS]	09/08/2021 05:00 PM
3113	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PcVue [ARC Informatique]	09/08/2021 04:41 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
3112	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		iEMS-10-IEC61850-Gateway [ControlNet International Inc.]	09/08/2021 02:21 PM
3111	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Delta Grid [Delta Electronics, Inc.]	09/08/2021 02:22 PM
3108	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SAS-PYLON-V2 [PNC Technologies Co., Ltd.]	09/02/2021 02:21 PM
3105	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		P14DL [GE Renewable Energy]	08/31/2021 08:38 AM
3104	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SYMAP®-Compact+ [Stucke Elektronik GmbH]	08/23/2021 11:52 AM
3097	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		H-SEAM-Server [Hyosung Heavy Industries Co., LTD.]	08/31/2021 08:38 AM
3096	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		H-SEAM- Client [Hyosung Heavy Industries Co., LTD.]	08/06/2021 09:21 AM
3095	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		H-PAC-001 [Hyosung Heavy Industries Co., LTD.]	08/05/2021 02:00 PM
3094	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SFL-3000 [KINKEI SYSTEM CORPORATION]	08/05/2021 09:42 AM
3093	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SFL-3000 [KINKEI SYSTEM CORPORATION]	08/05/2021 12:14 PM
3092	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Saitel DR: HUE with AB_DIDO and AB_AI [Schneider Electric España, S.A.]	08/05/2021 09:01 AM
3091	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSD100 [Grid Solutions SAS]	08/09/2021 11:03 AM
3088	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSEZen-F_M_T-XXX [M/s. C&S Electric Ltd.]	08/03/2021 10:52 AM
3086	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		EcoStruxure Power Operation [Schneider Electric]	07/22/2021 09:55 AM
3085	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ImPR1_Dv-1 [PJSC "SRPA "Impulse"]	08/03/2021 10:51 AM
3082	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SITRAS MDC[Siemens Mobility GmbH]	07/22/2021 09:33 AM
3080	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Saitel DR: HUE with AB_DIDO and AB_AI [Schneider Electric Espana, S.A.]	07/12/2021 11:15 AM
3078	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P3U30 Protection relay [Schneider Electric]	07/11/2021 09:59 AM
3077	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		REC670 Bay Control [Hitachi ABB Power Grids]	07/11/2021 09:59 AM
3076	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ProField-HE Substation Automation Gateway [Prolan Power Zrt]	07/30/2021 12:37 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
3075	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		REC670 Bay Control Unit version 2.2.5 [Hitachi ABB Power Grids]	07/11/2021 09:59 AM
3074	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		IRFA Feeder Protection / Bay Control [ZIV GRID Automation S.L.]	07/11/2021 09:59 AM
3073	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Saitel DP Remote Terminal Unit & Control [Schneider Electric Espana, S.A.]	07/11/2021 09:59 AM
3072	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SEPCOS Control & Protection Relay [Secheron SA]	07/11/2021 10:24 AM
3071	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ACOS 300: ACOS 354 Feeder protection [Vivavis AG]	07/11/2021 09:59 AM
3070	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		EFC60s Earth-Fault Compensation Controll [Trench]	07/11/2021 09:59 AM
3069	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Saitel DP: SM_CPU866e w/ DI32,DO16R,AI16 [Schneider Electric Espana, S.A.]	07/11/2021 09:59 AM
3068	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TOR 300 KC3 510 155 (TOP 300) [Relematika, LLC]	02/15/2022 04:38 PM
3067	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TOR 200 JI 22 3332-16 P (TOP 200) [Relematika, LLC]	07/11/2021 09:59 AM
3066	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		EuroProt+ (IED-EP+) DTVA High-voltage di [Protecta Electronics Co. Ltd.]	07/11/2021 09:59 AM
3065	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Arkens PR FEEDER FR 42 TE Multipurpose d [SCLE SFE]	07/11/2021 10:00 AM
3064	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Sherpa R6000 Compact+ Compact RTU & IED [Nucleo de Comunicaciones y Control S.L.U.]	07/11/2021 09:59 AM
3063	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ACOS 750 CU74D Automation and Telecontro [Vivavis AG]	07/11/2021 09:59 AM
3062	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		RTU7M Modular Control System [ELVAC a.s.]	07/11/2021 10:00 AM
3058	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TAPCON ® Voltage Regulator Unit [Maschinenfabrik Reinhausen GmbH]	07/11/2021 10:00 AM
3057	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TAPCON ® Voltage Regulator Unit [Maschinenfabrik Reinhausen GmbH]	07/11/2021 10:00 AM
3056	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		REC670 Bay Control [ABB AB]	07/11/2021 10:00 AM
3055	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		EFD500 Earth-Fault Detection Device [Trench]	07/11/2021 10:00 AM
3054	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SEPCOS Control & Protection Relay [Secheron SA]	07/11/2021 10:00 AM
3053	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		depRTU-H Multifunctional Programmable Co [DEP Company]	07/11/2021 10:00 AM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
3052	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		FCU-320 SVG Measurement and Control Devi [XI'AN GENTLE MELLOW TECHNOLOGY CO.,LTD.]	07/11/2021 09:59 AM
3051	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		NSD500M Bay Control Unit [NARI Technology Co., Ltd.]	07/11/2021 10:00 AM
3050	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Total ECLIPSE Transformer Monitoring Sys [Advanced Power Technologies LLC]	07/11/2021 10:00 AM
3049	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Aegis Feederl Motor Protection Relay [M/s Crompton Greaves Limited]	07/11/2021 10:00 AM
3048	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		REB500 Distributed busbar protection [ABB AB]	07/11/2021 10:00 AM
3047	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DBC Busbar Differential Protection Terminal [ZIV GRID Automation S.L.]	07/11/2021 10:00 AM
3046	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ADVC3 – Advanced Controller [Schneider Electric Recloser Solutions ]	07/11/2021 10:00 AM
3045	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		INGESAS IC3 Communication Unit [Ingeteam Power Technology, S.A.]	07/11/2021 10:22 AM
3044	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		IRL-F Directional Overcurrent with Sensi [ZIV GRID Automation S.L. ]	07/11/2021 10:00 AM
3043	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CFP1–A41D1 Feeder Protection Relay [Mitsubishi Electric Corporation]	07/11/2021 10:00 AM
3042	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		REC670 Bay Control [ABB AB]	07/11/2021 09:59 AM
3041	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ProQ 100 3Phase Energy meter with Commun [Secure Meters (Sweden) AB]	07/11/2021 10:00 AM
3040	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Sherpa R 5000 Modular RTU/IED, MPB 600 c [Núcleo de Comunicaciones y Control S.L.U.]	07/11/2021 10:00 AM
3039	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P3U30 Protection relay [Schneider Electric]	07/11/2021 10:00 AM
3038	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		BEMP 02.5.220.ET Feeder IED [JSC “Cheaz”]	07/11/2021 09:59 AM
3037	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DS Agile Gateway [GE Grid Solutions]	07/11/2021 10:21 AM
3036	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TPU S430 Multifunction protection and co [EFACEC]	07/11/2021 10:00 AM
3035	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TPU T500 High-end transformer protection [EFACEC]	07/11/2021 09:59 AM
3034	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		UC 500 Station Server [EFACEC ]	07/11/2021 10:20 AM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
3033	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DS Agile C264 Modular Substation / Bay Controller [GE Grid Solutions ]	07/11/2021 10:19 AM
3032	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		F650 Digital Bay Controller [GE Power Management, S.L. ]	08/04/2021 09:38 AM
3031	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		REC670 Bay Control (and variants) [ABB AB ]	07/11/2021 09:59 AM
3030	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		AMT-7000 Multipurpose Power Sys Recorder [Kinkei System Corporation]	07/11/2021 10:00 AM
3029	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SR350 Feeder Protection System 3 series [GE Power Management, S.L. ]	08/04/2021 09:38 AM
3028	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		UR N60 Network Stability and Synchrophas [GE Grid Automation]	08/04/2021 09:37 AM
3027	IEC 61850 Certificate	IEC 61850 Certificate			Rejected	Normal		F650 Digital Bay Controller [GE Power Management, S.L.]	08/04/2021 09:37 AM
3025	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		VAMP 57 Feeder Manager [Schneider Electric - Vamp Oy]	07/11/2021 09:59 AM
3024	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PQI96 -Power Quality Instrument [ JSC "Electropribor"]	07/11/2021 09:59 AM
3022	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		BEMP DZT	07/11/2021 09:59 AM
3018	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		REC670 Bay Control [ABB AB]	07/11/2021 10:00 AM
3017	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DS Agile Gateway [GE Grid Solutions]	07/11/2021 09:59 AM
3016	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DS Agile C264 [GE Grid Solutions]	07/11/2021 09:59 AM
3015	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GTW-Gateway Software for PACiS Solution [Schneider Electric]	07/11/2021 10:00 AM
3014	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		EcoSUI-PACiS local HMI [Schneider Electric]	07/11/2021 10:00 AM
3013	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PCM600 [ABB Oy]	06/01/2022 11:07 AM
3012	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM AGILE P741 BUSBAR DIFFERENTIAL PRO [M/s. GE T&D India Ltd.]	07/08/2021 05:02 PM
3011	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SAS-PYLON-V2 Substation Automation Syste [PNC Technologies Co., Ltd.]	07/11/2021 10:56 AM
3010	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		iEMS-10-IEC61850-Gateway [ControlNet International Inc.]	07/08/2021 05:02 PM
3009	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		HVDC-IED [GENAD SYSTEM Co.]	07/08/2021 05:02 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
3008	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SA-IMD SA Information Monitoring & Diagn [HANSHIN ELECTRIC Co.,Ltd.]	07/08/2021 05:02 PM
3007	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ECU-4784 Information Conn Device;SA-ICD [HANSHIN ELECTRIC Co.,Ltd.]	07/08/2021 05:02 PM
3006	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Z4G4 SA Operation Processing Dev; SA-OPD [HANSHIN ELECTRIC Co.,Ltd.]	07/08/2021 05:02 PM
3005	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Delta Grid [Delta Electronics, Inc.]	07/08/2021 05:02 PM
3004	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P14NB Feeder Management [GE Renewable Energy]	08/04/2021 09:38 AM
3003	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		NSR-378 TRANSFORMER PROTECTION [NARI Technology Co., Ltd.]	07/08/2021 05:02 PM
3002	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		NSR-371 BUSBAR PROTECTION [NARI Technology Co., Ltd.]	07/08/2021 05:02 PM
3001	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		NSR-303 LINE DIFFERENTIAL PROTECTION [NARI Technology Co., Ltd.]	07/08/2021 05:01 PM
3000	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SAS-PYLON-V2 Substation AutomationSystem [PNC Technologies Co., Ltd.]	07/08/2021 05:01 PM
2999	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SAS-PYLON-V2 Substation AutomationSystem [PNC Technologies Co., Ltd.]	07/08/2021 05:01 PM
2998	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		IED PAC-NX100 [PNC Technologies Co., Ltd.]	07/08/2021 05:01 PM
2997	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P94VR Feeder Management [GE Renewable Energy]	08/04/2021 09:38 AM
2996	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		IED DIPR-7000 [DEESYS Co., Ltd. ]	07/08/2021 05:01 PM
2995	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		IED K-IEC BC100 [Kyongbo Electric Co., Ltd. ]	07/08/2021 05:01 PM
2994	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SPPA-T3000 + CS3000 HW3 Communication [Siemens AG]	07/08/2021 05:01 PM
2993	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ECU-4784 Subsation Automation Local Info [Sanion Co., Ltd.]	07/08/2021 05:01 PM
2992	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SMD-K020 Subsation Automation Informatio [Sanion Co., Ltd.]	07/08/2021 05:01 PM
2991	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ECU-4784 Substation Automation Informati [Sanion Co., Ltd.]	07/08/2021 05:01 PM
2990	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		4HJ56AV Substation Automation Operation [Sanion Co., Ltd.]	07/08/2021 05:01 PM
2989	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MVR-F255 Feeder protection IED [DEIF A/S]	07/08/2021 05:01 PM



#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2988	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		APM5000 Server Partial Discharge Monitor [Advanced Power Management Co.]	07/08/2021 05:01 PM
2987	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ESM-HV400-24-A2E4-02S with ENMV-1 [Engineering Center Energoservice]	07/08/2021 05:01 PM
2986	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		AQ-250: AQ-F255 Feeder protection IED [Arcteq Relays Ltd.]	07/08/2021 05:01 PM
2985	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YS-IMS-GW IMS(Integrated Main Station)G1 [YOUSUNG Instrument & Electric Co., Ltd.]	07/08/2021 05:01 PM
2984	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SWIED-CU100 IEC61850 Communication Unit [SEWON Systech Ltd.]	07/08/2021 05:01 PM
2983	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ETR606 Controller [ENTEC Electric & Electronic Co., Ltd.]	07/08/2021 05:01 PM
2982	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Sirius-2ML-02 (?????-2??-02) Protection [Radius Avtomatica]	07/08/2021 05:01 PM
2981	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SMART-KP2 (????-???) Power facility lev [RTSoft, AO]	07/08/2021 05:01 PM
2980	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TPA-01 (???-01) Protection, Automation, [Prosoft-Systems Ltd.]	07/08/2021 05:01 PM
2979	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PNCSDP-100A Smart Digital Processor [PNC Technologies Co., Ltd.]	07/11/2021 10:59 AM
2978	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		HAMCS H1-CCP Converter Control & Protect [Hyosung Heavy Industries Co., Ltd.]	07/11/2021 11:00 AM
2977	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Multilin G500 Advanced Substation Gatewa [GE Multilin]	08/04/2021 09:38 AM
2976	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM AGILE P743 BUSBAR DIFFERENTIAL PRO [M/s. GE T&D India Ltd.]	07/08/2021 05:01 PM
2975	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DW-SPiN IEC 61850 Client Multi-HMI [Daewoong Electric Co. Ltd.]	07/10/2021 06:20 PM
2974	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		AQ-300: AQ-L359 Line protection IED [Arcteq Relays Ltd.]	07/08/2021 05:00 PM
2973	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SSC600 Smart substation control and prot [ABB Oy]	07/08/2021 05:00 PM
2972	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GRH200 High-Impedance Differential Prote [TOSHIBA Corporation]	07/08/2021 05:00 PM
2971	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GRE200 Multi Functional Protection [TOSHIBA Corporation]	07/08/2021 05:00 PM
2970	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YSIED Intelligent Local Station YS-UPTOS [YOUSUNG Instrument & Electric Co., Ltd.]	07/08/2021 05:00 PM
2969	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIPROTEC 5 6MU85 Merging Unit/Bay Unit [Siemens AG]	07/08/2021 05:00 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2968	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PCS-9613S Differential Relay [NR Electric Co., Ltd.]	07/11/2021 11:02 AM
2967	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MFP-H2SB(652PSA) Overcurrent Protection [Mitsubishi Electric Corporation]	07/08/2021 05:00 PM
2966	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MFP-H2SB(652PSA) Overcurrent Protection [Mitsubishi Electric Corporation]	07/08/2021 05:00 PM
2965	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MCD-HA(506PNA) Line Protection Relay [Mitsubishi Electric Corporation]	07/08/2021 05:00 PM
2964	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MCD-HA(506PNA) Line Protection Relay [Mitsubishi Electric Corporation]	07/08/2021 05:00 PM
2963	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SPiN-IMCU IED [Daewoong Electric Co. Ltd.]	07/08/2021 05:00 PM
2962	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DW-SpiN IEC 61850 Client GW (Gateway) [Daewoong Electric Co. Ltd.]	07/08/2021 05:00 PM
2961	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		HEPI 61850 ESS Server [Hankook Electric Power Information Co.]	07/11/2021 11:02 AM
2960	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PKUS SKO Digital Teleprotection Equipmen [Unitel Engineering LLC]	07/08/2021 05:00 PM
2959	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DW-SPIN IEC 61850 Client HMI [Daewoong Electric Co. Ltd.]	07/08/2021 05:00 PM
2958	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		EtherFOS RTU [ACandT System, Co., Ltd.]	07/08/2021 05:00 PM
2957	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P94VR Feeder Management [GE Renewable Energy]	08/04/2021 09:38 AM
2956	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P14NB [GE Renewable Energy]	08/04/2021 09:38 AM
2955	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Acuvim IIW Power Meter with AXM-WEB2 [Accuenergy (Canada) Inc.]	07/08/2021 05:00 PM
2954	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		EKRASCADA SCADA System [EKRA Research and Production Enterprise, Ltd.]	07/11/2021 10:16 AM
2953	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DCP3 Multifunctional Device for DC tract [Tianjin Keyvia Electric Co.Ltd.]	07/11/2021 11:03 AM
2952	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIPROTEC 5 6MU85 Merging Unit / Bay Unit [Siemens AG]	06/13/2022 03:05 PM
2951	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		OrionLX+ Automation Platform [NovaTech LLC]	07/11/2021 10:16 AM
2950	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Substation Automation Local Information [HANSHIN ELECTRIC Co.,Ltd.]	07/08/2021 05:00 PM
2949	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SMRT410 Relay Test System (4U4I) [Megger]	06/13/2022 03:06 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2948	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DAONSYS-MSA-SMD Substation Automation In [DAONSYS Limited Company]	07/11/2021 11:04 AM
2947	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		K-SDP Smart Control and Data Acquisition [KOOSSTECH. Inc.]	07/08/2021 05:00 PM
2946	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SA-LID Substation Automation Local Inform [GENAD SYSTEM Co.]	07/08/2021 04:59 PM
2945	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		XGWC XGateway Client [Daum IT Co., Ltd.]	07/08/2021 04:59 PM
2944	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		XGWS XGateway Server [Daum IT Co., Ltd.]	07/08/2021 04:59 PM
2943	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DS Agile C264 BAY CONTROL UNIT [M/s. GE T&D India Ltd.]	07/08/2021 04:59 PM
2942	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P14DL Feeder Protection [GE Renewable Energy]	07/08/2021 04:59 PM
2941	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ECU-4784 Substation Automation Informati [Sanion Co., Ltd.]	07/08/2021 04:59 PM
2940	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		4HJ56AV Substation Automation Operation [Sanion Co., Ltd.]	07/08/2021 04:59 PM
2939	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ECU-4784 Substation Automation Local Info [Sanion Co., Ltd.]	07/08/2021 04:59 PM
2938	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SMD-K020 Substation Automation Informatio [Sanion Co., Ltd.]	07/11/2021 11:05 AM
2937	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Substation Automation Operation Processi [Dowoo Digitech]	07/08/2021 04:59 PM
2936	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P5M30 Motor Protection Device [Schneider Electric Industries SAS]	07/09/2021 09:31 AM
2935	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P5M30 Motor Protection Device [Schneider Electric Industries SAS]	07/09/2021 09:31 AM
2934	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		UR N60 Network Stability and Synchrophas [GE Renewable Energy]	08/04/2021 09:38 AM
2933	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM Agile P743 Busbar Protection [GE Renewable Energy]	08/04/2021 09:38 AM
2932	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		P40 Agile Enhanced P14DL [GE Renewable Energy]	08/04/2021 09:38 AM
2931	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		IED SecuBox [Eunicesoft Co., Ltd.]	07/08/2021 04:59 PM
2930	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		OrionLX+ Automation Platform [NovaTech LLC]	07/08/2021 04:59 PM
2929	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		HS-TNM-61850C Substation Automation Info [Hyosung Heavy Industries Co., Ltd.]	07/11/2021 11:05 AM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2928	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YH-EPM-2000 CLIENT [YOUHO ELECTRIC IND. CO., LTD.]	07/08/2021 04:59 PM
2927	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SG B750 Digital Busbar Protection [Guo Dian Nanjing Automation Co., Ltd.]	07/08/2021 04:59 PM
2926	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		P40 Agile P14D Feeder Management Relay [GE Renewable Energy]	08/04/2021 09:38 AM
2925	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SPRECON-E-C Protection and Control Unit [ALFANAR Electrical Systems]	07/08/2021 04:59 PM
2924	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SPRECON-V460 Energy Edition [ALFANAR Electrical Systems]	07/11/2021 10:15 AM
2923	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MSA-Gateway Substation Automation Inform [DAONSYs Limited Company]	07/08/2021 04:59 PM
2922	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MSA-HMI Substation Automation Operation [DAONSYs Limited Company]	07/08/2021 04:59 PM
2921	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MSA-LGateway Substation Automation Local [DAONSYs Limited Company]	07/08/2021 04:59 PM
2920	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		REC670 Bay Control [ABB Power Technology AB]	07/08/2021 04:59 PM
2919	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Protective Relay (SBP-K110) [Sanion Co., Ltd.]	07/08/2021 04:59 PM
2918	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CoreTec4 Transformer Condition Monitor [ABB Power Grids]	07/08/2021 04:59 PM
2917	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Reyrolle 7SR511 Overcurrent and feeder p [Siemens AG]	07/08/2021 04:59 PM
2916	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SYNC 3000 Protocol Gateway/Data Concentr [Kalki Communication Technologies Pvt. Ltd.]	07/08/2021 04:59 PM
2915	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SYNC 2000 Protocol Gateway/Data Concentr [Kalki Communication Technologies Pvt. Ltd.]	07/08/2021 04:58 PM
2914	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM AGILE P645 TRANSFORMER PROTECTION [M/s. GE T&D India Ltd.]	07/08/2021 04:58 PM
2913	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM AGILE P243 MOTOR PROTECTION RELAY [M/s. GE T&D India Ltd.]	07/08/2021 04:58 PM
2912	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		VITZRO-SDP [VITZRO EM Co., Ltd.]	07/08/2021 04:58 PM
2911	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Argos-IEC61850 Client Smart Digital Proc [ENTEC Electric & Electronic Co., Ltd.]	07/08/2021 04:58 PM
2910	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ENS-SF-000NI [ENS Co., Ltd.]	07/08/2021 04:58 PM
2909	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YSCM-1900 Integration Control Monitoring [YOUSUNG Instrument & Electric Co., Ltd.]	07/08/2021 04:58 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2908	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSC-150-EBL Centralized Busbar Protectio [Beijing Sifang Automation Co., Ltd. ]	07/08/2021 04:58 PM
2907	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSC-326-EB Transformer Protection IED [Beijing Sifang Automation Co., Ltd.]	07/08/2021 04:58 PM
2906	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		P40 Agile P545 Line Differential Protect [GE Renewable Energy]	07/08/2021 04:58 PM
2905	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P145 Feeder Management R [GE Renewable Energy]	07/08/2021 04:58 PM
2904	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MCD-HA Line Protection Relay [Mitsubishi Electric Corporation]	07/11/2021 11:06 AM
2903	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		iFlex-EMS_IEC61850_CLIENT iFlex Energy M [Chung Hsin Electric]	07/11/2021 10:15 AM
2902	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PSL 641UX [Guo Dian Nanjing Automation Co., Ltd. ]	07/08/2021 04:58 PM
2901	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PST 671U Transformer Protection [Guo Dian Nanjing Automation Co., Ltd.]	07/08/2021 04:58 PM
2900	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM AGILE P145 [M/s. GE T&D India Ltd. ]	07/08/2021 04:58 PM
2899	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM AGILE P546 [M/s. GE T&D India Ltd.]	07/08/2021 04:58 PM
2898	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIPROTEC 5 7VE85 Paralleling device [Siemens AG, EM DG PRO]	07/08/2021 04:58 PM
2897	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		KELMAN DGA 900 Dissolved Gas Analyser [GE Grid Solutions (UK) Ltd]	07/08/2021 04:58 PM
2896	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P444 Distance Protection [GE Renewable Energy]	07/08/2021 04:58 PM
2895	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P643 Transformer Protect [GE Renewable Energy]	07/08/2021 04:58 PM
2894	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		HS-CSD CD Controlled Switching Device Co [HYOSUNG Corporation]	07/08/2021 04:58 PM
2893	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MKPA (????) Emergency control automation [Prosoft-Systems Ltd.]	07/08/2021 04:58 PM
2892	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		HS-ICD Substation Automation Information [HANSHIN ELECTRIC Co.,Ltd.]	07/08/2021 04:58 PM
2891	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DW-SPiN-LID SA Local Information Process [Daewoong Electric Co. Ltd.]	07/08/2021 04:58 PM
2890	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GMT-104-1 Substation-Automation Informat [GENAD SYSTEM Co.]	07/08/2021 04:58 PM
2889	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GMT-103 Substation Automation Operation [GENAD SYSTEM Co.]	07/08/2021 04:58 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2888	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GMT-116 Realtime Operation Information M [GENAD SYSTEM Co. ]	07/08/2021 04:57 PM
2887	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSI-200E-G-EBL Bay Control Unit IED [Beijing Sifang Automation Co., Ltd.]	07/08/2021 04:57 PM
2886	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSC-150-EA-DM Distributed Busbar Protect [Beijing Sifang Automation Co., Ltd.]	07/08/2021 04:57 PM
2885	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSD-1321 Smart Communication Management [Beijing Sifang Automation Co., Ltd.]	07/11/2021 10:15 AM
2884	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM C434 Bay Unit for Control and Moni [Schneider Electric Industries SAS]	07/09/2021 09:31 AM
2883	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P143 Feeder Management R [GE Renewable Energy]	08/04/2021 09:38 AM
2882	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P54C Multi-ended Line Di [GE Renewable Energy]	08/04/2021 09:38 AM
2881	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P442 Distance Protection [GE Renewable Energy]	08/04/2021 09:38 AM
2880	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PCS-221S MERGING UNIT [NR Electric Co., Ltd.]	08/05/2021 12:14 PM
2879	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSC-211-EB Multifunction Protection and [Beijing Sifang Automation Co., Ltd.]	07/08/2021 04:57 PM
2878	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSC-103-EB Line Differential Protection [Beijing Sifang Automation Co., Ltd.]	07/08/2021 04:57 PM
2877	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		CSC-101-EB Line Distance Protection IED [Beijing Sifang Automation Co., Ltd.]	07/08/2021 04:57 PM
2876	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		HS1902-HMI Substation Automation Operati [HANSHIN ELECTRIC Co.,Ltd.]	07/08/2021 04:57 PM
2875	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SMD-K010 Realtime Operation Information [HANSHIN ELECTRIC Co.,Ltd.]	07/08/2021 04:57 PM
2874	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Bresler-0107.603 (???????-0107.603) Bay [NPP Bresler, LLC]	07/08/2021 04:57 PM
2873	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		NSD500M4 Bay Control Unit [NARI Technology Co., Ltd.]	07/08/2021 04:57 PM
2872	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MFP-H2SB Overcurrent Protection Relay [Mitsubishi Electric Corporation ]	07/08/2021 04:57 PM
2871	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PT.9.10.00 Line protection relay [NPP "ALIMP"]	07/08/2021 04:57 PM
2870	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SPRECON-E-C PAC IED (Gateway, SC, BC) [Sprecher Automation GmbH]	07/08/2021 04:57 PM
2869	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PRS-721 Breaker Protection [CYG SUNRI Co., Ltd.]	07/11/2021 11:08 AM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2868	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		BP-2CD Busbar Protection [CYG SUNRI Co., Ltd.]	07/08/2021 04:57 PM
2867	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ZT-SG-100 Signal Generator [KEPCO]	07/08/2021 04:57 PM
2866	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Aegis Transformer Protection Relay [M/s Crompton Greaves Limited]	07/08/2021 04:57 PM
2865	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SNIIEC 61850 Client [SNIIT Corporation]	07/08/2021 04:57 PM
2864	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM AGILE P444 NUMERICAL DISTANCE PROT [GE T&D INDIA LIMITED]	07/08/2021 04:57 PM
2863	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ETLID1000 SA Local Information processin [ENTEC Electric & Electronic Co., Ltd.]	07/08/2021 04:57 PM
2862	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Telem-AGC [Martem AS]	07/11/2021 10:14 AM
2861	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		G5 Digital Fault Recorder [Elspec Engineering Ltd.]	06/13/2022 03:07 PM
2860	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		RES-3-61850 (???-3-61850) Fault Recorder [Prosoft-Systems Ltd.]	07/08/2021 04:57 PM
2859	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GND-Smart-SDP [GENAD SYSTEM Co.]	07/08/2021 04:57 PM
2858	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PSY-M Integrated Power System Monitoring [QINGDAO HARDHITTER ELECTRIC]	07/11/2021 11:10 AM
2857	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIMATIC WinCC Open Architecture [ETM Professional Control GmbH]	07/08/2021 04:56 PM
2856	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIMATIC WinCC Open Architecture [ETM Professional Control GmbH]	07/11/2021 10:14 AM
2855	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIMATIC WinCC Open Architecture [ETM Professional Control GmbH]	07/08/2021 04:56 PM
2854	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SIMATIC WinCC Open Architecture [ETM Professional Control GmbH]	07/11/2021 10:14 AM
2853	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		BDKQ-1000 Power Supply High Speed Switch [BEIJING DIPPER GALAXY TECHNOLOGY CO., LTD.]	07/11/2021 11:15 AM
2852	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		G5 Digital Fault Recorder [Elspec Engineering Ltd.]	07/08/2021 04:56 PM
2851	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GBU200 Bay Control [TOSHIBA Corporation]	07/08/2021 04:56 PM
2850	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GRT200 Transformer Protection [TOSHIBA Corporation]	07/08/2021 04:56 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2849	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		GRB200 Busbar Protection [TOSHIBA Corporation]	07/08/2021 04:56 PM
2848	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		KEDR-2.0 (????-2.0) Powerline Communicat [URALENERGOSERVICE LLC]	07/08/2021 04:56 PM
2847	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SPIN-SD2 Network Monitoring & Diagnosis [Daewoong Electric Co. Ltd.]	07/08/2021 04:56 PM
2846	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SPIN-BC-M Protection & Control Device [Daewoong Electric Co. Ltd.]	07/08/2021 04:56 PM
2845	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SPIN-BC-L Protection & Control Device [Daewoong Electric Co. Ltd.]	07/08/2021 04:56 PM
2844	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P638 Transformer Differential Prot [Schneider Electric Industries SAS]	07/09/2021 09:31 AM
2843	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SPRECON-E-C Protection and Control Unit [Sprecher Automation GmbH]	07/08/2021 04:56 PM
2842	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P139 Feeder Management and Bay Con [Schneider Electric Industries SAS]	07/11/2021 11:20 AM
2841	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P5F30 [Schneider Electric Industries SAS]	08/05/2021 12:14 PM
2840	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		TR-3000 Multi-Function Recorder [Ametek Power Instruments]	07/08/2021 04:56 PM
2839	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DCP3 Multifunctional Device for DCtracti [Tianjin Keyvia Electric Co.Ltd.]	07/11/2021 11:21 AM
2838	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P5M30 Motor Protection [Schneider Electric Industries SAS]	07/09/2021 09:31 AM
2837	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P5V20 Voltage Protection Relay [Schneider Electric Industries SAS]	07/09/2021 09:31 AM
2836	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P5U20 Universal Current Protecti [Schneider Electric Industries SAS]	07/09/2021 09:31 AM
2835	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Elipse Power IEC 61850 client driver [Elipse Software, Ltda]	07/11/2021 10:13 AM
2834	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		ETR600-BC Protection and Control Device [ENTEC Electric & Electronic Co., Ltd.]	07/10/2021 01:37 PM
2833	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		DW-IPC-11000 Substation Automation Infor [Dowoo Digitech]	07/08/2021 04:56 PM
2832	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		zenon Supervisor/Energy Edition [Ing. Punzenberger COPA-DATA GmbH]	07/11/2021 10:13 AM
2831	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Automatic Voltage Regulator [ZIV GRID Automation S.L.]	07/08/2021 04:56 PM
2830	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SCOPE advanced Automation Mgmt System [SCOPE T&M Pvt. Ltd.]	07/11/2021 10:12 AM



#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2829	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		UT-531X Communication Management Unit [ZHUHAI UNITECH POWER TECHNOLOGY]	07/11/2021 11:22 AM
2828	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SICAM P850 Power Meter [Siemens AG]	07/08/2021 04:56 PM
2827	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SUR-K210 [Sanion Co., Ltd.]	07/08/2021 04:56 PM
2826	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		SE Service (Smart Energy Service) [ICPSI (Intelligent Cloud Plus)]	07/08/2021 04:55 PM
2825	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		HPCi High Performance Controller [GE Power Conversion]	07/08/2021 04:55 PM
2824	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Smart Process Controller SA Local Inform [WOODAM TECH CO., LTD.]	07/08/2021 04:55 PM
2823	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		nms4sa SA Information Monitoring & diagn [WOODAM TECH CO., LTD. ]	07/08/2021 04:55 PM
2822	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PDNova Partial Discharge Analyzer [TECHIMP - Altanova Group S.r.l.]	07/11/2021 11:23 AM
2821	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Falcon Partial Discharge Analyzer [TECHIMP - Altanova Group S.r.l.]	07/11/2021 11:24 AM
2820	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		MiCOM P40 Agile P645 Transformer Differe [GE Renewable Energy]	08/04/2021 09:38 AM
2819	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PCS-221S MERGING U [NR Electric Co., Ltd.]	07/08/2021 04:55 PM
2818	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PCS-9611 FEEDER RELAY [NR Electric Co., Ltd. ]	07/08/2021 04:55 PM
2817	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		PCS-902 LINE DISTANCE RELAY [NR Electric Co., Ltd. ]	07/08/2021 04:55 PM
2816	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P5F30 Feeder Protection [Schneider Electric Industries SAS ]	07/09/2021 09:31 AM
2815	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		Easergy P5F30 Feeder Protection [Schneider Electric Industries SAS]	07/09/2021 09:31 AM
2814	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		saTECH BCU 152 Bay Control Unit [ARTECHE/SAC]	07/08/2021 04:55 PM
2813	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		VIPAM 4500DC Digital MultiFunction Relay [VITZRO EM Co., Ltd.]	07/08/2021 04:55 PM
2812	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		HTEC-10 Intelligent Transformer Informat [NANJING LITONGDA ELECTRICAL TECHNOLOGY CO., LTD.]	07/08/2021 04:55 PM
2811	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YSSA-LID Sub Auto Local Information proc [YOUSUNG Instrument & Electric Co., Ltd.]	07/08/2021 04:55 PM

#	Project	Tracker	ID	Source	Status	Priority	Standard(s)	Subject	Updated
2810	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YSSA-SMD Sub Auto Monitoring & diagnosis [YOUSUNG Instrument & Electric Co., Ltd.]	07/08/2021 04:55 PM
2809	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YSSA-Gateway Substation Automation Infor [YOUSUNG Instrument & Electric Co., Ltd.]	07/08/2021 04:55 PM
2808	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YSSA-HMI Substation Automation Operation [YOUSUNG Instrument & Electric Co., Ltd.]	07/08/2021 04:55 PM
2807	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YH-SAS-LID Substation Automation Local I [YOUHO ELECTRIC IND. CO., LTD.]	07/08/2021 04:55 PM
2806	IEC 61850 Certificate	IEC 61850 Certificate			Approved	Normal		YS-411 HVDC AC Filter Protection IED [YOUSUNG Instrument & Electric Co., Ltd.]	07/08/2021 04:55 PM

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