IEC 61850 Certificate Level A[1]

Ref. No: 2015TS02065

Issued to:
VITZROTECH Co.,LTD
605-2 SeongGok-Dong Danwon-Gu
Ansan-Si Gyeonggi-Do, 425-833
Republic of Korea

For the server product:
VIPAM5000-KF PT
Multifunction Protection & Control
Device
COM version 1.000

Issued by:
Korea Electrotechnology Research Institute

The server product has not shown to be non-conforming to:

IEC 61850 First Edition Parts 6, 7-1, 7-2, 7-3, 7-4 and 8-1

Communication networks and systems in substations.

The conformance test has been performed according to IEC 61850-10, UCA International Users Group Device Test Procedures version 2.3 with TPCL[2] 1.7, product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in <VIPAM5000-KF PT>, v1.0", "Model Implementation Conformance Statement for the IEC 61850 interface in <VIPAM5000-KF PT>, v1.0", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in <VIPAM5000-KF PT>, v1.0" and product's extra information for testing "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in <VIPAM5000-KF PT>, v1.0".

The following IEC 61850 conformance blocks are tested with a positive result (number of relevant and executed test cases / total number of test cases) :

1	Basic Exchange (23/24)		9a	GOOSE Publish (9/13)
2	Data Sets (3/6)		9b	GOOSE Subscribe (11/11)
2+	Data Set Definition (23/23)		12a	Direct Control (7/12)
4	Setting Group Selection (3/3)		12b	SBO Control (9/14)
5	Unbuffered Reporting (16/19)		12c	Enhanced Direct Control (7/13)
6	Buffered Reporting (18/21)		12d	Enhanced SBO Control (12/19)
			13	Time Synchronization (4/5)
			14	File Transfer (4/7)

This Certificate includes a summary of the test results as carried out at KERI in Republic of Korea with UniCA 61850 Client simulator version 4.29.03 with test suite version 3.29.00(TPCL 1.7) and UniCA 61850 analyzer version 5.29.02. This document has been issued for information purposes only, and the original paper copy of the KERI report: 2015TS02065 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KERI by VTZROTECH Co., LTD. The manufacturer's production process has not been assessed. This Certificate does not imply that KERI has approved any product other than the specimen tested.

Republic of Korea, August 19, 2015

Y. J. Lee
Executive Director
Power Apparatus Testing and Evaluation Division

J. I. Jeong
Technical Manager

[1] Level A – Independent Tester with certified ISO 17025 Quality System
[2] TPCL - Test procedures change list

Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL 1.7

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv7, Srv8, Srv9, Srv10, SrvN1e, SrvN1f, SrvN2, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
2+: Data Sets Definition	Dset2, Dset3, Dset4, Dset5, Dset6, Dset7, Dset8, Dset9 DsetN1cd, DsetN2, DsetN3, DsetN4, DsetN5, DsetN6, DsetN7, DsetN8, DsetN9, DsetN10, DsetN11, DsetN12, DsetN13, DsetN14, DsetN15	
4: Setting Group Selection	Sg1, Sg3, SgN1a	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp6, Rp8, Rp9, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br6, Br10, Br11
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7, Gop9, Gop10a	Gop1, Gop10b, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b, Gos4
12a: Direct control	CltN3, CtlN8 DOns1	Ctl2, Ctl7, CtlN11 DOns3
12b: SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, SBOns2	Ctl2, Ctl7, CtlN11
12c: Enhanced Direct control	CltN3, CtlN8 DOes2, DOes5	Ctl2, Ctl7, CtlN11
12d: Enhanced SBO control	Ctl3, CltN1, CltN2, CltN3, CltN4, CtlN9 SBOes1, SBOes2, SBOes3	Ctl2, Ctl7, CtlN11
13: Time sync	Tm1, Tm2, TmN1	TmN2
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	