IEC 61850 Certificate Level A[1]

No. 22TC200947

Issued to:

VITZRO EM Co, Ltd.
VITZRO Bldg, 7, Neungdong-ro 25-gil, Gwangjin-gu,
Seoul, Republic of Korea

For the server product:

IED
VIPAM-PBAS
Software version: 2.1

Issued by:

Korea Electrotechnology Research Institute
111, Hanggaul-ro, Sangrok-gu, Ansan-si, Gyeonggi-do, 15588, Republic of Korea

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

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

Communication networks and systems for power utility automation

The conformance test has been performed according to IEC 61850-10 Edition 2, the UCA International Users Group Edition 2 Server Test Procedures version 2.0.5 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in <<VITZROEM_VIPAM-PBAS_PICS v.1.0>>", "Model Implementation Conformance Statement for the IEC 61850 interface in <<VITZROEM_VIPAM-PBAS_MICS v.1.0>>", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in <<VITZROEM_VIPAM-PBAS_TICS v.1.0>>" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing for the IEC 61850 interface in << VITZROEM_VIPAM-PBAS_PIXIT v.1.0>>".

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

1	Basic Exchange (17/26)	12a	Direct Control (4/19)
2	Data Sets (4/7)	13	Time Synchronization (3/7)
2+	Data Set Definition (22/24)	14	File Transfer (5/8)
5	Unbuffered Reporting (14/23)		

This certificate includes a summary of the test results as carried out at KERI in Republic of Korea with UniGrid v.2.0.1 with test suite Ed2_Server_TP2.0.5_v1.1.1+755 and UniCA Analyzer v.5.40.01. This document has been issued for information purposes only, and the original paper copy of the KERI report: No. 22TC200947 will prevail.

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

Republic of Korea, December 20, 2022

J. H. Kim
Technical Manager
Power Apparatus Testing and Evaluation Division

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Principal Engineer

[1] Level A - Independent Test lab with certified ISO/IEC 17025 Quality System
UCA Users Group, P.O. Box 315, Shell Knob, MO 65747, USA

Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 2.0.5

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcdf, sSrvN4	sSrv6
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
2+: Data Set Definition	sDs2, sDs3, sDs4, sDs5, sDs6, sDs7, sDs8, sDs9, sDs13, sDs14, sDsN1cd, sDsN2, sDsN3, sDsN4, sDsN5, sDsN6, sDsN7, sDsN8, sDsN9, sDsN10	sDs11, sDs12
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp15
12a Direct control	sCtl5, sCtl10, sDOns1, sDOns2	
13 Time sync	sTm1, sTm2, sTmN1	
14 File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	