

IEC 61850 Certificate Level A¹

No. 24TC200102

Issued to:

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

For the server product:

PROTECTION & CONTROL IED
VIPAM 3500II-TR
Software version: 0.001
Firmware version: 1.000
Hardware version: 1.000

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 2.0.6 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in <<VITZROEM_V3.5KII-TR_PICS v.1.0>>", "Model Implementation Conformance Statement for the IEC 61850 interface in <<VITZROEM_V3.5KII-TR_MICS v.1.0>>", "<<VITZROEM_V3.5KII-TR_TICS v.1.0>>" and product's extra information for testing: "<<VITZROEM_V3.5KII-TR_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 (22/26)	9a	GOOSE Publish (11/13)
2	Data Sets (4/7)	9b	GOOSE Subscribe (20/21)
2+	Data Set Definition (24/24)	12a	Direct Control (9/18)
4	Setting Group Selection (4/4)	12d	Enhanced SBO Control (16/28)
5	Unbuffered Reporting (22/23)	13	Time Synchronization (4/7)
6	Buffered Reporting (32/33)	14	File Transfer (6/8)
		15	Service Tracking (6/17)

This certificate includes a summary of the test results as carried out at KERI in Republic of Korea with UniGrid SA v.2.2.1 with test suite Ed2_Server_TP2.0.5_AmdTP1.1_v220 and UniCA Analyzer v.6.41.00.0. This document has been issued for information purposes only, and the original paper copy of the KERI report: No. 24TC200102 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, February 5, 2024

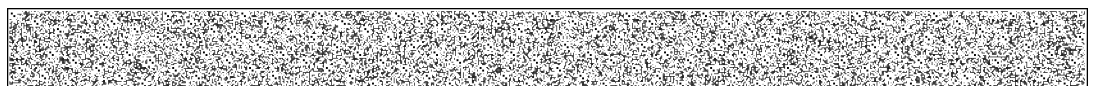


W. H. Seo
Technical Manager
Electrification & Energy Evaluation Division



S. J. Rim
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 2.0.6

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcdf, sSrvN4	sAssN6, sSrv6, sSrv12, sSrvN1e, sSrvN2, sSrvN3
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, sDsN11, sDsN12
4: Setting Group Selection	sSg1, sSg3, sSgN1	sSg11
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp6, sRp7, sRp8, sRp10, sRp11, sRp12, sRp13, sRp15, sRpN5
6: Buffered Reporting	sBr1, sBr2, sBr3, sBr4, sBr5, sBr9, sBr14, sBr16, sBr20, sBr21, sBr22, sBr25, sBr26, sBr27, sBr28, sBr29, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN8	sBr6, sBr7, sBr8, sBr10, sBr11, sBr12, sBr13, sBr15, sBr23, sBr24
9a: GOOSE publish	sGop2a, sGop3, sGop4, sGop9, sGop10, sGop11, sGop12	sGop1, sGop6, sGopN1, sGopN2
9b: GOOSE subscribe	sGos1, sGos2, sGos3, sGos5, sGos6a, sGos7, sGos8, sGos9, sGos10, sGos11, sGos12, sGos23, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6	sGos4, sGos6b
12a Direct control	sCtl5, sCtl10, sDOns1, sDOns2	sCtl2, sCtl7, sCtl13, sCtl15, sCtl16
12d Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl2, sCtl4, sCtl6, sCtl7, sCtl15, sCtl16
13 Time sync	sTm1, sTm2, sTmN1	sTmN2
14 File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	sFt3
15 Service tracking		sTrk1, sTrk2, sTrk8, sTrk9, sTrk10, sTrk11

