

IEC 61850 Certificate Level A¹

No. 20TC200680

Issued to:

Daum IT Co., Ltd.
1007 ho Vision Tower, Bichgalam-ro,
Naju-si, Jeonranam-do, 58217, Republic of Korea

For the server product:

XGWS XGateway Server
Version: 1.0
LG notebook (LG15N54)
Linux (Red Hat Ent. R.6.9)

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 2.0.2 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in <XGWS V1.0>, v.1.0.0.0", "Model Implementation Conformance Statement for the IEC 61850 interface in <XGWS V1.0>, v.1.0.0.0", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in <XGWS V1.0>, v.1.0.0.0" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing for the IEC 61850 interface in <XGWS V1.0>, v.1.0.0".

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 (19/26)	12a Direct Control (7/19)
2 Data Sets (4/7)	12d Enhanced SBO Control (10/29)
2+ Data Set Definition (24/24)	13 Time Synchronization (4/7)
4 Setting Group Selection (3/4)	14 File Transfer (5/8)
5 Unbuffered Reporting (22/23)	
6 Buffered Reporting (29/33)	

This certificate includes a summary of the test results as carried out at KERI in Republic of Korea with UniGrid v.6.7.0 with test suite Ed2_Server_TP2.0 and UniCA Analyzer 5.34.02. This document has been issued for information purposes only, and the original paper copy of the KERI report: No. 20TC200680 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KERI by Daum IT 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, August 7, 2020



D. J. Lee
Executive Director
High Voltage Evaluation Division



S. P. Ahn
Technical Manager

¹ Level A - Independent Test lab with certified ISO/IEC 17025 Quality System

Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test
Procedures version 2.0.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcdf, sSrvN4	sSrv6, sSrvN1e, 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	
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, sBr15
12a Direct control	sCtl5, sCtl10, sDOns1, sDOns2	sCtl2, sCtl7, sCtl13
12d Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	
13 Time sync	sTm1, sTm2, sTmN1	sTmN2
14 File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	