

# IEC 61850 Certificate Level A<sup>1</sup>

Page 1/2  
No. 22-063844-01-1

Issued to:  
DAUMIT CO., Ltd.  
120, Gwanak-ro, Gwanak-gu,  
Seoul, Republic of Korea

For the client system:  
xGrids Transfer  
DAUMIT\_ISD  
Software Version 1.0.0  
HW : ProLiant DL380 Gen10 Plus  
OS : Ubuntu 22.04.2 LTS  
S/N : ISD-2024-0001-2

Issued by: **KOREA TESTING LABORATORY**

**The CLIENT 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 in power utility automation**

The conformance test has been performed according to IEC 61850-10 Edition 2, the UCA International Users Group Edition 2 Client Test Procedures version 1.2 with product's protocol, model and technical issue implementation conformance statements: "DAUMIT\_DAUMIT\_ISD\_PICS\_v.1.0", "DAUMIT\_DAUMIT\_ISD\_MICS\_v.1.0", "DAUMIT\_DAUMIT\_ISD\_TICS\_v.1.0" and product's extra information for testing: "DAUMIT\_DAUMIT\_ISD\_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 cases):

|     |                               |     |                               |
|-----|-------------------------------|-----|-------------------------------|
| 1   | Basic Exchange (20/24)        | 12b | SBO Control (9/11)            |
| 2   | Data Sets (8/10)              | 12c | Enhanced Direct Control (7/9) |
| 4   | Setting Group Selection (3/3) | 12d | Enhanced SBO Control (9/11)   |
| 5   | Unbuffered Reporting (22/24)  | 13  | Time Synchronization (4/4)    |
| 6   | Buffered Reporting (26/28)    | 14  | File Transfer (6/8)           |
| 12a | Direct Control (7/9)          | 15  | Service Tracking (5/17)       |

This certificate includes a summary of the test results as carried out at Seoul in the Republic of Korea with IEC 61850 Ed2 Virtual Server version 1 with test suite IEC 61850 Ed2 Client Conformance Verifier1.0 and KEPCO ANALYZER 1.0. This document has been issued for information purposes only, and the original paper copy of KTL report: No. TR-22-063844-01-1 will prevail.

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

Seoul, May. 10. 2023

*A. Han*

Ah Han  
Principal Engineer  
IT Convergence Technology Center

*윤영광*

YoungKwang Yun  
Assistant Research Engineer  
IT Convergence Technology Center

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

Applicable Test Procedures from the UCA International Users Group Edition 2 Client Test Procedures version 1.2

| Conformance Block            | Mandatory  | Conditional   |
|------------------------------|--|---|
| 1: Basic Exchange            | cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6  | cAssN7<br>cSrv1, cSrv2, cSrv3, cSrv4, cSrv5, cSrv6, cSrv7, cSrvN1, cSrvN3, cSrvN4, cSrvN5, cSrvN6 |
| 2: Data Sets                 |  | cDs1, cDs2, cDs3, cDs5, cDs6, cDsN1a, cDsN1b, cDsN1c  |
| 4: Setting Group Selection   | cSg2, cSgN1  | cSg1  |
| 5: Unbuffered Reporting      | cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6               | cRp1, cRp2, cRp6, cRp7, cRp16, cRp17, cRp18, cRpN1  |
| 6: Buffered Reporting        | cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr13a, cBr14, cBr15, cBr19, cBr30, cBr31, cBrN2, cBrN5, cBrN6 | cBr1, cBr2, cBr6, cBr7, cBr16, cBr17, cBr18, cBr32, cBr33, cBrN1                                  |
| 12a: Direct control          | cCtl4a, cCtl5a, cDOns1, cDOns2   | cCtl1a, cCtl2a, cCtl3a  |
| 12b: SBO control             | cCtl4b, cCtl5b, cSBOns1, cSBOns2, cSBOns3  | cCtl1b, cCtl2b, cCtl3b, cSBOns4   |
| 12c: Enhanced Direct Control | cCtl4c, cCtl5c, cDOes1, cDOes2   | cCtl1c, cCtl2c, cCtl3c  |
| 12d: Enhanced SBO control    | cCtl4d, cCtl5d, cSBOes1, cSBOes2, cSBOes3  | cCtl1d, cCtl2d, cCtl3d, cSBOes4   |
| 13: Time sync                | cTm1, cTmN1  | cTm2, cTmN2   |
| 14: File transfer            | cFt1, cFt3, cFtN1  | cFt2, cFt5, cFtN2   |
| 15: Service Tracking         |  | cTrk1, cTrk2, cTrk7, cTrk8, cTrk9   |