**IEC 61850 Certificate Level A/B1**

|  |  |
| --- | --- |
| Issued to: | For the product: |
| << TEST INITIATOR >>  << FULL ADDRESS>> | <<PRODUCT ID and NAME>>  <<SOFTWARE VERSION>>  <<Hardware version and/or S/N>> |

Issued by: << TEST LAB >>

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

IEC 61850-5 Edition 2 [Amendment 1] Performance Class <<P1 (3ms), P2 (10ms), P3 (20ms) or P4 (100ms)>>

The performance test has been performed according to the UCA International Users Group GOOSE performance Test Procedures version 2.Y with product’s protocol implementation conformance statements: “<<PICS>>”, and product’s extra information for testing: “<<PIXIT>>”.

The test has been carried out on one single specimen of the product as referred above and submitted to <<TESTLAB>> by <<TEST INITIATOR>>. The manufacturer’s production process has not been assessed. This certificate does not imply that <<TESTLAB>> has certified or approved any product other than the specimen tested.

This Certificate summaries test results as carried out at <<CITY>> in <<COUNTRY>> with <<GOOSE publisher VERSION>> and <<Analyzer VERSION>>. This document has been issued for information purposes only, and the original paper copy of the test report: No. <<REPORT NUMBER>> will prevail.

The GOOSE performance has been measured with <<Boolean and/or Double Point>> information’s.

<<LOCATION>>, <<DATE>>

<<Signature of responsible test manager>> <<Signature of responsible test engineer>>

<<Name of responsible test manger>> <<Name of responsible test engineer>>

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1 Level A - Independent Test lab with certified [ISO 9001] [ISO/IEC 17025] Quality System

Level B - Test lab at least following ISO 9001

UCA International Users Group, P.O. Box 315, Shell Knob, MO 65747, USA

**GOOSE Performance Measured Results:**

Performance class = P1 (3 ms) or P2 (10 ms) or P3 (20 ms) or P4 (100 ms)

Goose Performance Benchmark summary results (compensated for scan cycle delays if any)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Large dataset | Correlated subscribed | Back-ground | Minimum Transfer time [ms] | Maximum Transfer time [ms] | Average Transfer time [ms] |
| Gpf1 | - | - | - | y.yy | y.yy | y.yy |
| Gpf2 | X | - | - | y.yy | y.yy | y.yy |
| Gpf3 | - | X | - | y.yy | y.yy | y.yy |
| Gpf4 | X | X |  | y.yy | y.yy | y.yy |
| Gpf5 | - | - | X | y.yy | y.yy | y.yy |
| Gpf6 | X | - | X | y.yy | y.yy | y.yy |
| Gpf7 | - | X | X | y.yy | y.yy | y.yy |
| Gpf8 | X | X | X | y.yy | y.yy | y.yy |
| Gpf9  fixed length | X | X |  | y.yy | y.yy | y.yy |