# IEC 61850 Certificate Level A[1]

No. 74101374-MOC/INC 12-00700

Issued to:
ALSTOM GRID PROTECTION &
CONTRÔLE SAS
25 Rue Didier Daurat
34170 CASTELNAU-LE-LEZ
FRANCE

For the product:
ALSTOM DCS 4.6 Gateway
GTW Firmware: 6.2.16
Hardware: Advantech PC
OS: Windows XP

Issued by: **KEMA**

## The product has not shown to be non-conforming to:

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

## Communication networks and systems in substations

The conformance test has been performed according to IEC61850-10 with product's protocol, model and technical issue implementation conformance statements "GTW-PICS-C4", "GTW-MICS - C4", "GTW-TICS-A3" and product's extra information for testing "GTW-PIXIT-I2".

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 as defined in the UCA International Users Group Device Test procedures v2.2b):

| | | | |
|---|---|---|---|
| 1 | Basic Exchange (15/24) | 12a | Direct Control (4/11) |
| 2 | Data Sets (3/6) | 12c | Enhanced Direct Control (4/13) |
| 5 | Unbuffered Reporting (13/18) | 12d | Enhanced SBO Control (9/19) |
| 6 | Buffered Reporting (16/20) | 13 | Time Synchronization (3/5) |

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCAsim 61850 version 3.23.02 with test suite version 3.24.00 and UniCA 61850 analyzer version 4.24.02. The test is based on the UCA International Users Group Device Test Procedures version 2.2b. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74101374-MOC/INC 12-00699 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by ALSTOM GRID PROTECTION & CONTRÔLE SAS. The manufacturer's production process has not been assessed. This attestation does not imply that KEMA has approved any product other than the specimen tested.

Arnhem, 13 April, 2012

M. Adriaensen
Director Management & Operations Consulting

R.S. Massink
Test engineer

1 Level A - Independent Test lab with certified ISO 9000 or ISO 17025 Quality System

Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.2b

| Conformance Block | Mandatory | Conditional |
|---|---|---|
| 1: Basic Exchange | Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5<br><br>Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4 | Srv8 |
| 2: Data Sets | Dset1, Dset10a, DsetN1ae | |
| 5: Unbuffered Reporting | Rp1, Rp2, Rp3, Rp4, Rp7, Rp10<br><br>RpN1, RpN2, RpN3, RpN4 | Rp5, Rp8, RpN6 |
| 6: Buffered Reporting | Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12<br><br>BrN1, BrN2, BrN3, BrN4, BrN5 | Br5, Br10, BrN6 |
| 12a: Direct control | CtlN3, CtlN8<br><br>DOns1, DOns3 | |
| 12c: Enhanced Direct Control | CtlN3, CtlN8<br><br>DOes2, DOes5 | |
| 12d: Enhanced SBO control | Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, CtlN9<br><br>SBOes1, SBOes2, SBOes3 | |
| 13: Time sync | Tm1, Tm2, TmN1 | |