IEC 61850 Certificate Level A[1]

No. 74100727-MOC/INC 12-00618

Issued to:
IDS GmbH
Nobelstraße 18
D-76275 Ettlingen
Germany

For the client system:
IDS ACOS750
H/W CU73B
S/W 5.7.0
SVN 70490

Issued by: **KEMA**

The client system 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 IEC 61850-10 with client system's protocol, model and technical issue implementation conformance statements: IDS IEC61850 Client PICS v1.2, IDS IEC61850 Client MICS v1.1, IDS IEC61850 Client TICS v1.1 and product's extra information for testing: IDS IEC61850 Client PIXIT v1.3.

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 IUG Conformance Test Procedures for Client System with IEC 61850-8-1 interface, revision 1.1 with TPCL version 1.1):

1	Basic Exchange (16/22)		12a	Direct Control (5/7)
2	Data Sets (4/8)		12c	Enhanced Direct Control (5/7)
2+	Data Set Definition (3/4)		12d	Enhanced SBO Control (7/9)
5	Unbuffered Reporting (16/18)		13	Time Synchronization (2/4)
6	Buffered Reporting (18/22)			

This Certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA Multi IED Simulator v2.0.0.3 and UniCA 61850 analyzer v4.24.02. The test is based on the UCA IUG Conformance Test Procedures for Client System with IEC 61850-8-1 interface revision 1.1 with TPCL version 1.1. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74100727-MOC/INC 12-00617 will prevail.

The test has been carried out on one single specimen of the client system as referred above and submitted to KEMA by IDS. The manufacturer's production process has not been assessed. This Certificate does not imply that KEMA has certified or approved any product other than the specimen tested.

Arnhem, March 29, 2012

M. Adriaensen
Regional Director Management & Operations Consulting

S.J.T. Mulder
Senior Test Engineer

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

Applicable Test Procedures from the UCA IUG Conformance Test Procedures for Client System with IEC 61850-8-1 interface, revision 1.1 with TPCL version 1.1

	Conformance Block	Mandatory	Conditional
1:	Basic Exchange	cAss1, cAss2, cAss3, cAss4, cAssN1, cAssN4, cAssN5, cAssN6, cSrv5, cSrvN3	cAssN7, cSrv1, cSrv3, cSrv4, cSrvN1, cSrvN5
2:	Data Sets	cDs1, cDs2, cDs5, cDsN1	
2+:	Data Set Definition	cDs6, cDsN4	cDs7
5:	Unbuffered Reporting	cRp2, cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRpN2, cRpN3, cRpN7, cRpN8	cRp1, cRp6, cRp7, cRpN1, cRpN4
6:	Buffered Reporting	cBr2, cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr12, cBrN2, cBrN3, cBrN7, cBrN8, cBrN9	cBr1, cBr7, cBrN1, cBrN4
12a:	Direct control	cCtl4, cCtlN1 cDOns1, cDOns2	cCtl2
12c:	Enhanced Direct Control	cCtl4, cCtlN1 cDOes1, cDOes2	cCtl2
12d:	Enhanced SBO control	cCtl4, cCtlN1, cSBOes1, cSBOes2, cSBOes3	cCtl2, cSBOes4
13:	Time sync	cTm1	cTmN1