IEC 61850 Certificate Level A[1]

International Usersgroup

No. 74104673-MOC/INC 13-3024

Issued to:
Survalent Technology Corporation
2600 Argentia Road
Mississauga, Ontario
L5N 5V4, Canada

For the client system:
Survalent Advanced Automation Management System
Software: v1.13.0821
Hardware: DELL PowerEdge R320 with windows server 2012 standard

Issued by: **KEMA**

The client system has not shown to be non-conforming to:

IEC 61850 First Edition Parts 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 and UCA IUG Conformance Test Procedures for Client System with IEC 61850-8-1 interface, revision 1.1 with TPCL[2] version 1.2 with client system's protocol, model and technical issue implementation conformance statements: "SAAMS v1.13.0821 - IEC 61850 PICS v1.2", SAAMS v1.13.0821 - IEC 61850 MICS v1.2", "SAAMS v1.13.0821 - IEC 61850 TICS v1.2" and product's extra information for testing: "SAAMS v1.13.0821 - IEC 61850 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):

1	Basic Exchange (16/22)	12a	Direct Control (4/7)
2	Data Sets (2/9)	12b	SBO Control (5/9)
2+	Data Set Definition (2/4)	12c	Enhanced Direct Control (4/7)
5	Unbuffered Reporting (14/18)	12d	Enhanced SBO Control (5/9)
6	Buffered Reporting (17/22)	13	Time Synchronization (1/4)

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA Multi IED Simulator version 3.26.01 and UniCA 61850 Analyzer version 5.26.04. This document has been issued for information purposes only, and the original paper copy of the KEMA report No. 74104673-MOC/INC 13-3023 will prevail.

The test has been carried out on one single specimen of the client system as referred above and submitted to KEMA by Survalent Technology Corporation. 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, August 29, 2013

M. Adriaensen
Director Intelligent Networks & Communication

R. Schimmel
Certification Manager

[1] Level A - Independent test lab with certified ISO 9001 Quality System
[2] TPCL - Test Procedure Change List

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 1.2

	Conformance Block	Mandatory	Conditional
1:	Basic Exchange	cAss1, cAss2, cAss3, cAss4, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7 cSrv1, cSrv3, cSrv5, cSrvN1, cSrvN3, cSrvN5, cSrvN6
2:	Data Sets		cDs2, cDs5
2+:	Data Set Definition	cDs6, cDsN4	
5:	Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRpN2, cRpN3, cRpN7, cRpN8	cRp2, cRp6, cRp7, cRpN4
6:	Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr12, cBrN2, cBrN3, cBrN7, cBrN8, cBrN9	cBr6, cBr7, cBr13, cBrN4
12a:	Direct control	cCtl4, cCtlN1 cDOns1, cDOns2	
12b:	SBO control	cCtl4, cCtlN1 cSBOns1, cSBOns2, cSBOns3	
12c:	Enhanced Direct Control	cCtl4, cCtlN1 cDOes1, cDOes2	
12d:	Enhanced SBO control	cCtl4, cCtlN1, cSBOes1, cSBOes2, cSBOes3	
13:	Time sync	cTm1	