IEC 61850 Certificate Level A[1]

No. 74100344-MOC/INC 11-0597

Issued to:

SystemCORP Embedded Technology Pty Ltd
Suite 4/12 Brodie Hall Drive
Technology Park
Bentley WA 6102
Australia

For the product:

WebCAN Substation Control and Monitoring System
With Firmware v1.36.00

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 IEC 61850-10 with product's protocol, model and technical issue implementation conformance statements: "IEC 61850 SET Protocol Implementation Conformance Statement (PICS) WebCAN, version 4.01", "IEC 61850 SET Model Implementation Conformance Statement (MICS) WebCAN, version 1.02", "IEC 61850 SET TISSUES Implementation Conformance Statement (TICS) WebCAN, version 1.02" and product's extra information for testing: "IEC 61850 SET Protocol implementation eXtra Information for testing (PIXIT) WebCAN, version 1.05".

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 (19/24)	12a	Direct Control (6/11)
2	Data Sets (3/6)	12b	SBO Control (8/14)
5	Unbuffered Reporting (14/18)	12c	Enhanced Direct Control (6/13)
6	Buffered Reporting (16/20)	12d	Enhanced SBO Control (11/19)
9a	GOOSE Publish (9/12)	13	Time Synchronization (3/5)
9b	GOOSE Subscribe (9/10)		

This Certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCAsim 61850 version 3.21.02 with test suite 3.21.02 and UniCA 61850 analyzer 4.22.02. 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. 74100344-MOC/INC 11-0596 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by SystemCORP. 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, 14 April 2011

M. Adriaensen
Regional Director Management & Operations Consulting

Robin 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 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv7, Srv8, SrvN1e, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10 RpN1, RpN2, RpN3, RpN4	Rp8, Rp9, RpN5, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12 BrN1, BrN2, BrN3, BrN4, BrN5	Br10, Br11, BrN6
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1, Gop5, Gop6, Gop10, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
12a: Direct control	CltN3, CtlN8 DOns1, DOns3	Ctl2, CtlN11
12b: SBO control	Ctl3, CltN1, CltN2, CltN3, CltN4, SBOns2	Ctl2, CtlN11
12c: Enhanced Direct Control	CltN3, CtlN8 DOes2, DOes5	Ctl2, CtlN11
12d: Enhanced SBO control	Ctl3, CltN1, CltN2, CltN3, CltN4, CltN9 SBOes1, SBOes2, SBOes3	Ctl2, CtlN11
13: Time sync	Tm1, Tm2, TmN1	