



# IEC 61850 Certificate Level A<sup>1</sup>

No. 535-Consulting 2006-0042

Issued to:  
**TEAM S.A.**  
Parque Tecnológico de Zamudio Edificio 108  
E-48170 Zamudio (Vizcaya)  
Spain

For the product:  
**SISTEAM 61850 GATEWAY ZY7060**  
hardware revision "ZY7060\_"  
software revision "ZY7082A"



**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: "SISTEAM 61850 GATEWAY, 61850 gateway application, sw detail analysis documents; Protocol Implementation Conformance Statements (PICS); ZY7012ICB05\_, Model Implementation Conformance Statements (MICS); ZY7012ICB06\_ and Tissues Conformance Statements (TICS); ZY7012ICB04\_", and extra information for testing (PIXIT) "Protocol Implementation Extra Information (PIXIT); ZY7012ICB03\_".

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):

1 Basic Exchange (18/23)	13 Time Synchronization (4/4)
2 Data Sets (2/5)	14 File transfer (5/6)
5 Unbuffered Reports (11/13)	

This Certificate includes a summary of the test results as carried out at the Robotiker laboratory at Bilbao, Spain with UniCAsim 61850 version 2.12.01 test system running test suite "61850 Conformance Test v2.12", UniCA 61850 analyzer version 4.12.01. The test is based on the UCA International Users Group Device Test Procedures version 1.1. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 535-Consulting 2006-0043 will prevail.

The test have been carried out on one single specimen of the products as referred above and submitted to KEMA by TEAM. 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, January 16, 2006

S.J.L.M. Janssen  
Managing Director KEMA Consulting

R. Schimmel  
Senior Test Engineer

1) Level A – Independent Test Lab with certified ISO 9000 or ISO 17025 Quality System

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**KEMA Nederland B.V.**

Utrechtseweg 310, 6812 AR Arnhem; P.O. Box 9035, 6800 ET Arnhem, The Netherlands.  
Telephone + 31 26 356 6142, Telefax + 31 26 515 456, Email sales@kema.com

Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 1.1

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	PICS-SetDataValues: Srv6, Srv7, SrvN1e, SrvN3
2: Data Sets	Dset1, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7 RpN1, RpN2, RpN3, RpN4	PICS-Segmentation: Rp5 Unsupported options: RpN6
13 Time sync	Tm1, Tm2, TmN1	ClockFailure: TmN2
14 File Transfer	Ft1, Ft2ab, FtN1ab	PICS-SetFile: Ft3



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