



IEC 61850 Certificate Level A¹

No. 30820190-Consulting 08-1956

Issued to:
Yantai DongFang Electronics Information Industry Co.Ltd.
Add: No.2 Jichang Road,
Yantai, 264000,
China

For the product:
DF1725IED with firmware:
DF1000-V6.00-1725IED-V3.00
and IEC61850-V3.00



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: "Protocol Implementation Conformance Statement for DF1725IED of DongFang Co, firmware DF1000-V6.00-1725IED-V3.00 and IEC61850-V3.00", "MICS for DF1725IED, Firmware Type: DF1000-V6.00-1725IED-V3.00 and IEC61850-V3.00", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in DF1725IED, version 0.1" and product's extra information for testing: "Protocol implementation extra information for testing (PIXIT) of the IEC 61850 communication interface in DF1725IED of DongFang Co, version 0.5".

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 v1.1):

1 Basic Exchange (14/23)	9a GOOSE Publish (7/11)
2 Data Sets (4/5)	9b GOOSE Subscribe (9/9)
2+ Data Set Definition (24/28)	12a Direct Control (5/11)
3 Substitution (3/3)	12c Enhanced Direct Control (5/11)
5 Unbuffered Reporting (11/13)	12d Enhanced SBO Control (10/17)
6 Buffered Reporting (14/15)	13 Time Synchronization (3/4)
	14 File Transfer (5/6)

This Certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCAsim 61850 version 3.17.01 with test suite 3.17.02 and UniCA 61850 analyzer 4.18.01. 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. 30820190-Consulting 08-1955 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by DongFang. 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, September 12, 2008

W. Strabbing
Manager Intelligent Networks and Communication

M. Flohil
Test engineer

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

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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	
2: Data Sets	Dset1, DsetN1ae	DsetN1b, DsetN16
2+: Data Set Definition (SCL-DynDataSet)	Dset2, Dset3, Dset4, Dset5, Dset6, Dset7, Dset8, Dset9 DsetN1cd, DsetN2, DsetN3, DsetN4, DsetN5, DsetN6, DsetN7, DsetN8, DsetN9, DsetN10, DsetN11, DsetN12, DsetN13, DsetN14, DsetN15	
3: Substitution	Sub1, Sub2, SubN1	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7 RpN1, RpN2, RpN3, RpN4	Rp5, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, BrN6
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1, Gop6, GopN1
9b: GOOSE subscribe	Gos1, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
12a: Direct control	CltN3, CltN8 DOs1, DOs3	Ctl2
12c: Enhanced Direct Control	CltN3, CltN8 DOes2, DOes5	Ctl2
12d: Enhanced SBO control	Ctl3, CltN1, CltN2, CltN3, CltN4, CltN9 SBOes1, SBOes2, SBOes3	Ctl2
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, FtN1ab	FtN1c, Ft2c