DNV·GL

ATTESTATION OF CONFORMITY

No. 10096758-INC 18-2605

Issued to:
Enilit
Veiverių g. 134-221,
LT-46352 Kaunas,
Lithuania

for the product:
Enilit RTU
Type: IEC 104 Controlled station,
Software Version: Enilit CMS V4.0
Interface Type: Ethernet (RJ45)

With the implemented communication protocol:

IEC 60870-5-104 ed.2 (IS 2006)

Network Access for IEC 60870-5-104 using standard transport profiles in Standard direction and the Enilit default Protocol Implementation Document for IEC 60870-5-104 V.3.

The product has not been shown to be non-conforming to the specified protocol standard, including the interface requirements.

End-to-End data element tests for the information and control points as described in manufacturer Protocol Implementation Conformance Statement (PICS) have been performed on the product's protocol implementation. Functional tests in controlled mode are performed for the following levels:

• Station initialization • Redundancy • Cyclic data transmission • Data acquisition through read • Acquisition of events • General interrogation	• Clock synchronization • Command transmission • Transmission of Integrated Totals • Parameter Loading • Test procedure • File Transfer

The test campaign did not reveal any errors in the product's protocol implementation.

This Attestation is granted on account of tests made at location of DNV GL in Arnhem, the Netherlands and performed with DNV GL *UniGrid Telecontrol Simulator* version 2.0.0 running CS104 Test Suite version 1.41 and *UniGrid Telecontrol 104 Analyser* version 3.2.0. The results, including remarks and limitations, are laid down in DNV GL report no. 10096758-INC 18-2604.

The tests have been carried out on one single specimen of the product, submitted by Enilit. The Attestation does not include an assessment of the manufacturer's production process. Conformity of his production with the specimen tested by DNV GL is not the responsibility of DNV GL.

Arnhem, June 12, 2018

Issued by:

S.J.T Mulder
Business Leader
Interoperability of smart power systems

DNV·GL
DNV KEMA is now DNV GL

Davood Mohammadi Sooran
Test Consultant

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