



Choose certainty.
Add value.

IEC 61850 — The standard making your devices and systems ready to communicate in the Smart Grid

The future of energy supply: Smart Grids

The increasing focus on renewable energy sources (as well as the German "Renewable Energy Law" and the European "20-20-20 Plan") will raise the importance of Smart Grids. Thanks to these intelligent networks, the future energy generation and consumption can be efficiently adjusted and optimized. Due to the increasing use of renewable energies from diverse electricity producers like wind farms, photovoltaic facilities etc., more information about the status of the network will be needed.

The challenge

Production of energy from renewable sources is volatile, but consumers expect electrical power supply to be reliable and stable. Furthermore, new devices must be able to integrate with existing equipment. In order to ensure a smooth and reliable activity in the network, IEC 61850 is the new global standard for power utility communication. At TÜV SÜD Embedded Systems, we check and certify the conformance with the standard and the interoperability of devices and systems in accordance with IEC 61850. Our certificates will confirm that your equipment is really ready for the Smart Grid.

We test conformance and interoperability of your devices according to IEC 61850







TÜV SÜD Group

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Conformance testing & certification

 Conformance testing is needed to make sure that the vendor's protocol is compliant to the standard IEC 61850-10

Benefit for device manufacturers

- Your equipment is ready to be integrated into the Smart Grids
- Opens new export markets

Interoperability testing

 Interoperability testing is important to make sure that data exchange between different systems is possible

Benefit for solution providers

- Interoperable components will save time and costs of integration into complex systems
- Will enable you to compete in international tenders

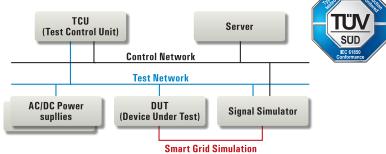
Electricity grid operators and legislators (the German Renewable Energies Act, EEG) will continue to increase the demands on the ability of devices and systems to communicate. Proof of conformity to IEC 61850 will then be a precondition for systems being connected to the grid or for the possibility of funding under the EEG.

TÜV SÜD Embedded Systems – Your partner for IEC 61850 compliance

TÜV SÜD Embedded Systems helps you to ensure that your systems are in compliance with IEC 61850.

What we will check – our services at a glance:

- IEC 61850 Pre-Conformance Test
- IEC 61850 Conformance Test with Certification
- IEC 61850 Interoperability Test



Contact us today – our experts will be happy to assist you with detailed advice:

Your contact:

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