



# ICTERRA

Excellence in Software Engineering

# 25+ years

International | Multi-cultural  
Multi-disciplinary  
Project Experience

## ABOUT ICTERRA

ICTerra is a Software Engineering Company with 200+ software professionals and offices in Ankara, Istanbul, London, Munich.

We combine more than 25 years of software development experience with technology expertise and proven methodologies to provide Software Solutions to our customers. We have been building long lasting strategic partnerships with our customers across multiple industries such as Aviation, Defense, Energy, Medical, and Telecommunications.

## ENERGY & UTILITIES

Here, at ICTerra, we are delivering cutting-edge smart, scalable and reliable solutions for energy & utility systems that make use of new technologies and approaches to work in harmony with precise and fault tolerant hardware equipment.

- **High available infrastructure** with advanced **disaster recovery** capabilities
- **Real-time, end-to-end visibility** and alarm management
- Fast access to labeled input and output data to obtain trend insights and perform **predictive analytics** and **machine learning** activities.
- **Protocol level security** and **edge device security** to prevent possible breaches
- Granular, role-based user **access management** for allowing different perspectives for users with different roles
- **Mission-critical, model driven embedded software** development with high compliance (**MISRA C**) to gather sensor data
- **Reusable**, standardized software units applicable to various domains at ease (electricity, natural gas, water, etc.)
- A broad range of supported communication protocols like **IEC 60870-5-104**, **Modbus**, **DNP3** and REST services like **Straton**



# ICTERRA ENERGY & UTILITIES SOLUTIONS SHOWCASES

## Supervisory Control and Data Acquisition (SCADA) & Energy Management System

ICterra has developed a SCADA / energy monitoring system software to gather and store real-time sensor data, using state-of-the-art high available infrastructure, big data and web technologies with an abstraction that allows adaptation of whole system to various domains at ease.

## Advanced Remote Terminal Unit (RTU) Software and Simulators & Power Quality Analyzer Software

ICterra has developed an advanced remote terminal unit software with fully functional protocol stack implementation for synchrophasor measurement, transmission standard and oscilloscopic data standard with real-time simulators for RTU devices and a power quality analyzer unit software that makes use of custom data transfer protocol built on TCP stack.

## TECHNOLOGY STACK



## REFERENCES

**aselsan** | Supervisory Control and Data Acquisition (SCADA) & Energy Monitoring System

**aselsan** | Advanced Remote Terminal Unit Software Power Quality Analyzer Software



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