



ELECTRICAL SUBSTATION IEC61850 UPGRADE

End User: TEIAS

Partner: GSL Eng.

Location: Turkey

Year: 2023

Success Story

BACKGROUND

TEİAŞ, a government-owned corporation, stands as one of the largest electricity companies in Europe and the primary transmission system operator in Turkey. Aiming to modernize its extensive distribution network, TEİAŞ embarked on a significant project to upgrade its electrical substations.

In this venture, KYLAND emerged as a key partner, having established a strong presence in Turkey since 2015 through its partnership with GSL Eng. Founded in 1988, GSL Eng. has been instrumental in offering expertise and support within the local industry.



SYSTEM REQUIREMENTS

TEİAŞ faced the daunting task of upgrading its substations to meet the evolving demands of modern electricity distribution. The challenge was not only technical in nature, involving the integration of advanced networking technologies, but also required a solution robust enough to withstand Turkey's diverse climatic and electrical conditions.

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WHY KYLAND:

Facing the challenge head-on, we introduced Kyland SICOM3028GPT, an innovative and resilient modular platform designed for harsh utility substation and industrial environments.

Key Features of SICOM3028GPT:

- Integrated Solution: Combines IEEE1588v2, Sync-E, full gigabit, and both Layer 2 & Layer 3 capabilities.
- High Capacity: Supports up to 28 gigabit fiber/copper ports.
- Standards Compliance: Adheres to IEC61850 and IEEE1613 standards.
- Flexible Design: 19-inch 1U rack mountable, with expandable slots for maximum versatility.
- Precision Timing: Achieves a timing precision of 100 ns through IEEE1588v2 and Sync-E with hardware time stamping.
- Advanced Networking: Includes comprehensive Layer 2 and Layer 3 functionalities.
- Efficient Management: Features diverse management options including Console, Telnet, Web, and SNMP.

The deployment of the SICOM3028GPT in TEIAS's substations has significantly enhanced the operational efficiency and reliability of Turkey's electrical distribution system. This project has not only improved the network's stability, ensuring a consistent and reliable electricity supply, but also equipped TEIAS with a future-ready infrastructure. The upgradation has enabled TEIAS to seamlessly adapt to evolving technological needs and increasing demands, marking a significant leap in operational capabilities and setting a new standard in electricity distribution.



Product Detail:

<https://klgsmartec.com/product/sicom3028gpt/>

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