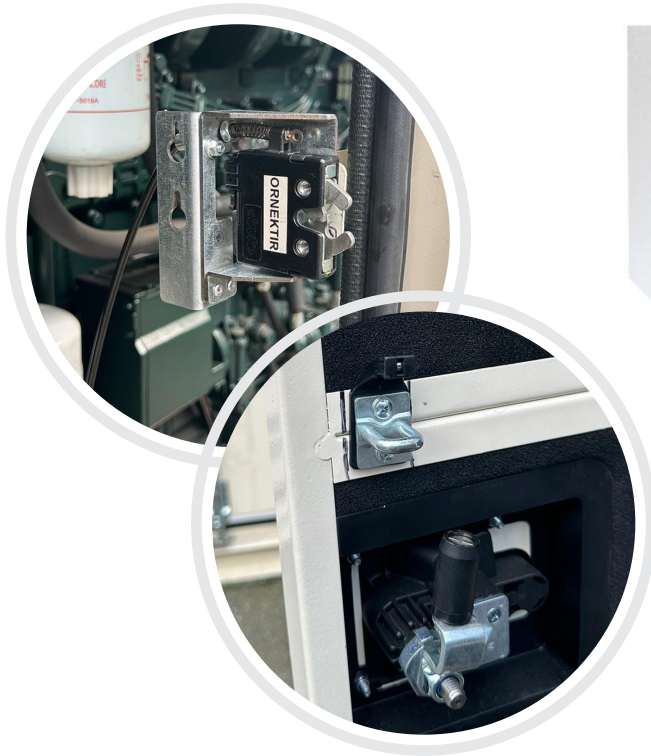




## Teksan Case Study: Enhancing Hybrid Generators with Lynx Latch and C5 Controller Integration



### Introduction

Teksan, a leading manufacturer of power solutions, primarily focusing on generating sets, lighting towers, and hybrid power systems, faced challenges in managing access to their hybrid generators. They required a solution to secure multiple compartments of their generators, allowing authorized personnel controlled access while preventing theft and optimizing operational efficiency.

## Challenges

- **Security:** Ensuring secure, authorized access to generator compartments.
- **Operational Efficiency:** Real-time control and monitoring to maximize performance.
- **Reliability:** Enhancing uptime and reducing downtime through advanced control systems.
- **Scalability:** Integrating a solution that scales with increasing demand.
- **Theft Prevention:** Implementing measures to prevent unauthorized access and theft.

## Solution

### ***Lynx Latch***

A secure locking mechanism ensuring only authorized access, with features such as:

- Data authentication at the lock level
- Durable design (average ultimate force 4000 N)
- Corrosion resistance
- Compatible with BVK Cosmic controller over secure MODBUS line
- Dimensions: 52 x 52 x 14.5 mm, Weight: 135 g
- Supply Voltage: 12V, Max Current: 900mA

### ***C5 Controller***

A powerful controller providing real-time online control and monitoring capabilities:

- Drives multiple locks with OTCs
- Suitable for places with multiple access points
- Online manageable via USB, mobile device, and Ethernet
- Supports environmental controlling sensors through RS-485-Modbus port
- Operates in 3 OTC access modes: OTC mode, Banking mode, and hybrid mode
- Uses BLE for seamless integration with no external keypad, making the system unnoticeable from the outside
- Works completely offline and standalone; when online in real-time, it is centrally monitored and controlled by IoTServo

### ***Digital Access Keys***

Enable keyless access to different compartments, supporting up to 15 compartments with configurable access permissions (one-time or multiple access within a specified period).

# Implementation

**Assessment and Customization:** Evaluated Teksan's specific requirements and customized the Lynx Latch and C5 Controller system to meet specific operational needs.

**Installation and Integration:** Installed the Lynx Latch on each Hybrid Generator compartment, integrated the C5 Controller to manage the latches, and implemented the digital access key system.

**Testing and Training:** Conducted extensive testing to ensure seamless operation and provided comprehensive training to Teksan's technical team on the use and maintenance of the system.

**Deployment and Support:** Deployed the solution across Teksan's global operations and established a support framework for ongoing assistance and updates.

## Benefits

### Enhanced Security

- The Lynx Latch ensures that only authorized personnel can access the Hybrid Generators, reducing the risk of unauthorized access and tampering.

### Improved Operational Efficiency

- The C5 Controller's real-time monitoring and control capabilities, along with IoT Servo integration for central monitoring, allow for optimized performance and proactive maintenance, reducing downtime and operational costs.

### Increased Reliability

- Continuous real-time monitoring helps in early detection of issues, ensuring higher reliability and uptime of the generators.

### Scalability

- The solution is scalable, allowing Teksan to expand operations without compromising on security or efficiency.

### Flexible Access Management

- The digital access keys enable multiple parties to access different compartments securely and conveniently, supporting both one-time and multiple access scenarios.

### Theft Prevention

- Centralized control and monitoring, along with secure locking mechanisms, prevent unauthorized access and theft of valuable components and fuel.

## Customer Feedback

### Chief Operations Officer, Teksan

"Integrating the Lynx Latch and C5 Controller has transformed our operations. We now have unparalleled control over our Hybrid Generators, enhancing both security and efficiency. The real-time capabilities, flexible access management, and robust theft prevention measures have been game-changers. We are confident this solution will support our growth and innovation in the energy sector."

## Conclusion

The Lynx Latch and C5 Controller integration has provided Teksan Generator with a robust, scalable, and efficient solution to enhance the security, operational efficiency, and reliability of their Hybrid Generators. The addition of digital access keys and seamless BLE integration further improves flexibility and convenience, making it easier to manage and maintain the generators while effectively preventing theft.

## Company Descriptions

### ***Teksan Generator***

Founded in 1994, Teksan Generator is an engineering and technology company that produces uninterrupted energy solutions. Based in Istanbul, Turkey, Teksan offers a wide range of products including diesel generators, natural gas and biogas generator sets, cogeneration and trigeneration systems, mobile lighting towers, hybrid power systems, biogas solutions, and microgrid systems. With an annual production capacity of 15,000 generators, Teksan operates in over 130 countries and is a preferred partner for many national and international projects. The company is known for its reliable and innovative products, continuous development, and strong after-sales support (**Teksan**) (**EMIS Next**).

### ***BVK Technology***

BVK Technology is a leading provider of smart, connected security devices for ATMs and financial institutions. The company specializes in developing advanced access control solutions, including one-time code (OTC) based lock systems, remote monitoring, and management software. BVK Technology is headquartered in Istanbul, Turkey, and is dedicated to delivering reliable and secure access management solutions to a global clientele. The company focuses on innovation and continuous improvement, providing customized solutions to meet the evolving needs of its customers.

## Contact Information

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