

# Telecommunications

E N G L I S H

**ISEO**<sup>®</sup>  
ULTIMATE ACCESS TECHNOLOGIES



# Telecommunications

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# Telecommunications

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The telecommunications industry has grown exponentially, becoming a vital part of our daily lives and a strategic priority for the evolution of our society.

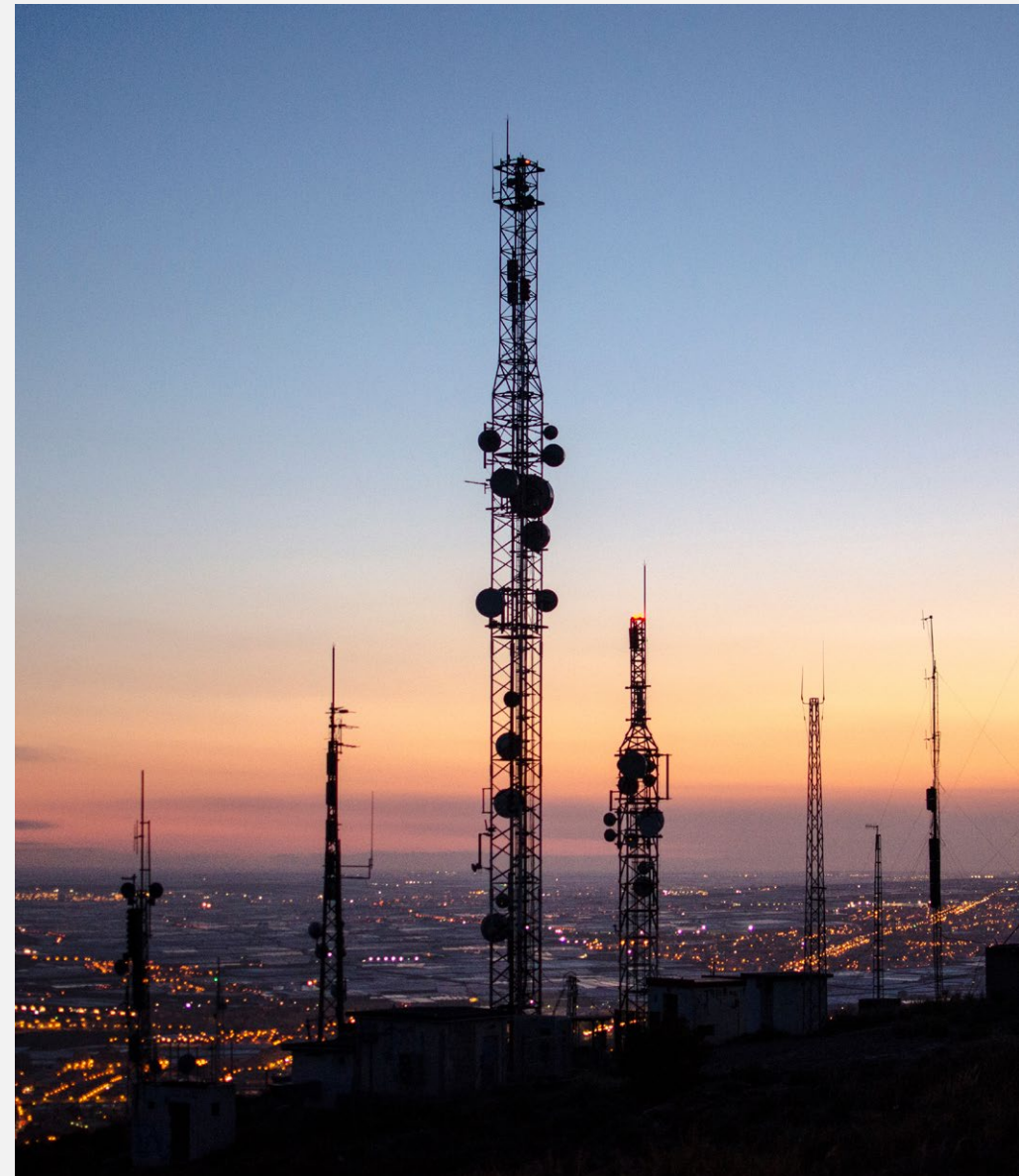
This sector faces **challenges in the protection and management of its infrastructures**. These challenges are not only tied to the **remote location of facilities and equipment** but also stem from the **diverse operational needs** of its various parts, such as data centres, tower companies, and fibre companies. Each has distinct operations, which lead to unique access management priorities that must be addressed to ensure reliable and secure operations.

ISEO is a **hardware manufacturer, software developer, system integrator, and service provider** that maintains **full in-house control** over its solutions, ensuring the highest standards and certifications. With a high level of specialisation in the industry, ISEO has deployed its solutions across hundreds of thousands of telecommunications sites, offering bespoke access management systems tailored to customer needs. By integrating security, operational efficiency, and value-added services, ISEO transforms traditional access control into a powerful management tool, driving continuous improvements and supporting digital transformation.

ISEO response:

- Systemic approach
- Tailored solutions
- Customisable software
- Data-oriented approach
- Immaterial access rights
- Data collection and audit
- Value-added services

Do you need more information? Ask our experts.





## Driving innovation

Since 2003, we have been a trusted partner of leading telecom companies. Our deep integration into the core business processes of our customers has enabled us to continuously consolidate our expertise.

We improve our solutions by developing innovative hardware and services, adapting our organisation to meet the evolving needs and goals of our clients. Additionally, we ensure **compliance with new laws and regulations**, supporting seamless **operational processes**. As the telecom industry evolves, so do we – delivering excellence through innovation and collaboration.

## Systemic approach

Our approach in the telecommunications segment is built on fostering **direct relationships with customers** and certified value-added resellers to ensure precise alignment with specific business needs.

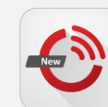
Operating in a project-based mode, we emphasise the development of long-term partnerships and the creation of tailor-made access management solutions, delivering unmatched value and flexibility to meet the unique challenges of the industry.





## LSA

ISEO simplifies access management in utilities with LSA software. The **web-based multi-user software is customisable to each company's needs**, granting flexibility, straightforward updates, efficient collaboration and enhanced data security.



## Our Solution

ISEO incorporates access control into a comprehensive approach designed to enhance security, optimise operational management performance, and integrate with new value-added services.



### HARDWARE

#### F9000 contactless mechatronic product range

ISEO's F9000 mechatronic product range, including the **F9000 key, cylinders, key boxes, and padlocks**, provides telecommunications infrastructures with a **comprehensive digital access management solution** designed to improve operational efficiency, reduce maintenance costs, and enhance security across their sites.



### SOFTWARE

#### LSA access control system

LSA is the ultimate access control system for the complete digitisation of access management in the Telecommunications Industry. A versatile **web-based software tailored for administrators and access managers** to streamline the configuration and operation of any access control system using ISEO technology.

#### MyLocken App for smartphone

With MyLocken App, the staff can manage access rights from their smartphones. The app synchronises with the mechatronic keys to deliver real-time and secure access management. In addition, MyLocken App enhances access control with an array of **services focusing on safety** (lone worker protection, workers' certification, risk management), security (reporting lost keys, check-in/check-out), **operational management and compliance** with customers' processes.



### SERVICES

#### Value-added services

ISEO provides **comprehensive assistance across all project phases** (pre- and post-sales) and maintains full supply chain control, enabling it to meet each customer's specific needs through customisations and seamless integrations. Combining its strengths as a manufacturer, system integrator and service provider, ISEO leverages strong **production expertise and a consultative approach** to ensure **tailored solutions** that are easy to use and compatible with existing systems.



## Benefits

For every professional involved in telecommunications infrastructure and site management, LSA access control system with F9000 mechatronic product range enhances security, streamlines operations, and optimises efficiency. Our technology adapts to customer processes, reduces administrative effort, minimises access failures, and provides the tools needed for large-scale deployments, thanks to detailed reporting, cost reduction, and enhanced health and safety compliance.



## Security and site management

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### COMPREHENSIVE MAINTENANCE-FREE SECURITY FOR SITES

LSA access control system with F9000 mechatronic product range offers **reliable and maintenance-free security** for telecommunications infrastructures. Built to endure extreme conditions, the F9000 cylinders are certified to resist water, corrosion, and mechanical attacks, ensuring reliable protection without the need for batteries. Thanks to the inductive technology, the F9000 mechatronic keys facilitate information exchange with the cylinder, enabling **real-time access rights transmission**. The **LSA access control system further simplifies access management with a single key for multiple entry points**. Matched with the user-friendly MyLocken App, LSA web interface helps administrators to assign permissions and manage workflows. With advanced monitoring, detailed reporting, and full protection against security incidents, the LSA access control system with F9000 product range provides a customisable, cost-effective way to streamline site security management, eliminating operational expenses.

## Health & Safety management

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### ENSURING WORKER PROTECTION, COMPLIANCE, AND EFFICIENCY

ISEO's LSA access control system with F9000 mechatronic product range sets new standards in security and operational efficiency for Health & Safety goals. With **automated health concerns** integrated into this solution, it's possible to ensure that workforce, assets, and remote telecommunications sites are continuously monitored and secured. The innovative MyLocken App for smartphone enhances safety through **features like lone worker or authorised staff who work at height and real-time hazard reporting**, while the LSA access control system simplifies operations with **flexible, scalable workflows** tailored to your needs. ISEO delivers unmatched reliability, helping optimise safety, compliance, and efficiency across the entire infrastructure.

## Operations management

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### BOOSTING THE OPERATIONAL EFFICIENCY AND EFFECTIVENESS

Streamline operations and reduce operational expenditure with the powerful combination of the LSA access control system and F9000 mechatronic product range. Our solution digitalises access and workforce management, boosting efficiency while minimising costs. **The F9000 products eliminate the need for constant maintenance.** Battery-free and contactless (thanks to induction technology), the cylinders, padlocks, and key boxes operate with **no power supply required**, ensuring long-lasting reliability and reducing ongoing maintenance and replacement costs. LSA's centralised SaaS platform simplifies access control and **automates workforce management**, reducing administrative overhead. With the MyLocken App, technicians manage access rights from their smartphones, along with work orders, driving operational efficiency. Tailored to business workflows, our scalable solutions ensure long-term cost-effectiveness, supported by our expertise in multi-site deployments.

## Digital transformation

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### EMBRACING DIGITAL TRENDS FOR RELIABLE TELECOM OPERATIONS

Our SaaS solution offers a flexible and scalable platform for managing telecom site operations. With **proactive monitoring, disaster recovery, and continuous security updates**, we ensure that data is safeguarded against evolving threats. Compliant with **ISO 27001**, our solution integrates flawlessly with AI-driven security services and big data tools, enabling efficient data processing and enhanced decision-making.





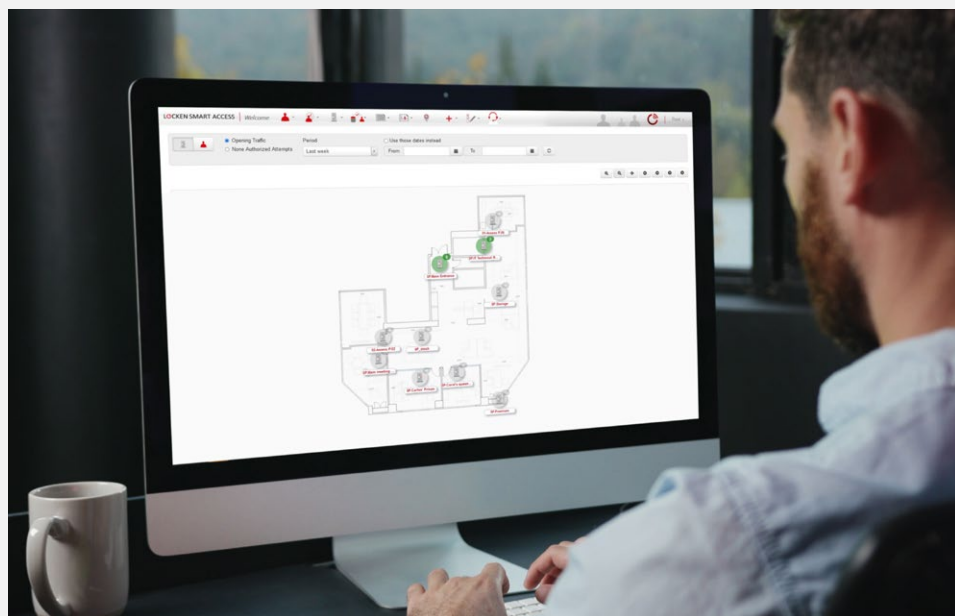
# LSA

## Enhanced operational and access management efficiency with LSA

**LSA is a web-based multi-user customisable software** that is used by administrators and access managers to configure and operate any access control system based on ISEO 1RIS platform.

This new-generation software is aimed at **simplifying access management for all types of solution**, whether small, medium, large or complex systems.

With the ISEO F9000 ON keys and cylinders, you can easily manage your security systems through the LSA software – the heart of your solution. The LSA software is designed to help you streamline access management, improve security, and boost profitability, all while meeting the unique demands of your company. LSA can be **tailored to fit your specific requirements, whether in a SaaS model or as an in-house installation**. And with easy integration with third-party information systems, you can be sure your existing infrastructure works seamlessly with our solution.



The LSA software also provides intuitive features, like **real-time access requests and graphical displays of key data** (including maps, floor plans, and more), giving you complete control over your access points and user presence at any time.

With ISEO's expert support, this solution is fully customisable to the organisation's needs, ensuring that you get the most out of your system, today and as your needs evolve.

### KEY BENEFITS

- **Save time**  
automate routine tasks, so your team only needs to intervene when there's an exception
- **Increase efficiency**  
easily integrate with your existing IT systems, cutting down on management time and cost
- **Adaptable**  
tailor the software to meet your company's unique requirements – and as those needs evolve, LSA evolves with you
- **Simplify security**  
manage multiple hardware types – whether standalone or integrated – through a single, unified system
- **Customisable licenses**  
choose from software licenses with IT support and hosting or a subscription-based SaaS model to suit your budget and operational needs

## MyLocken App

### Maximise efficiency and real-time management

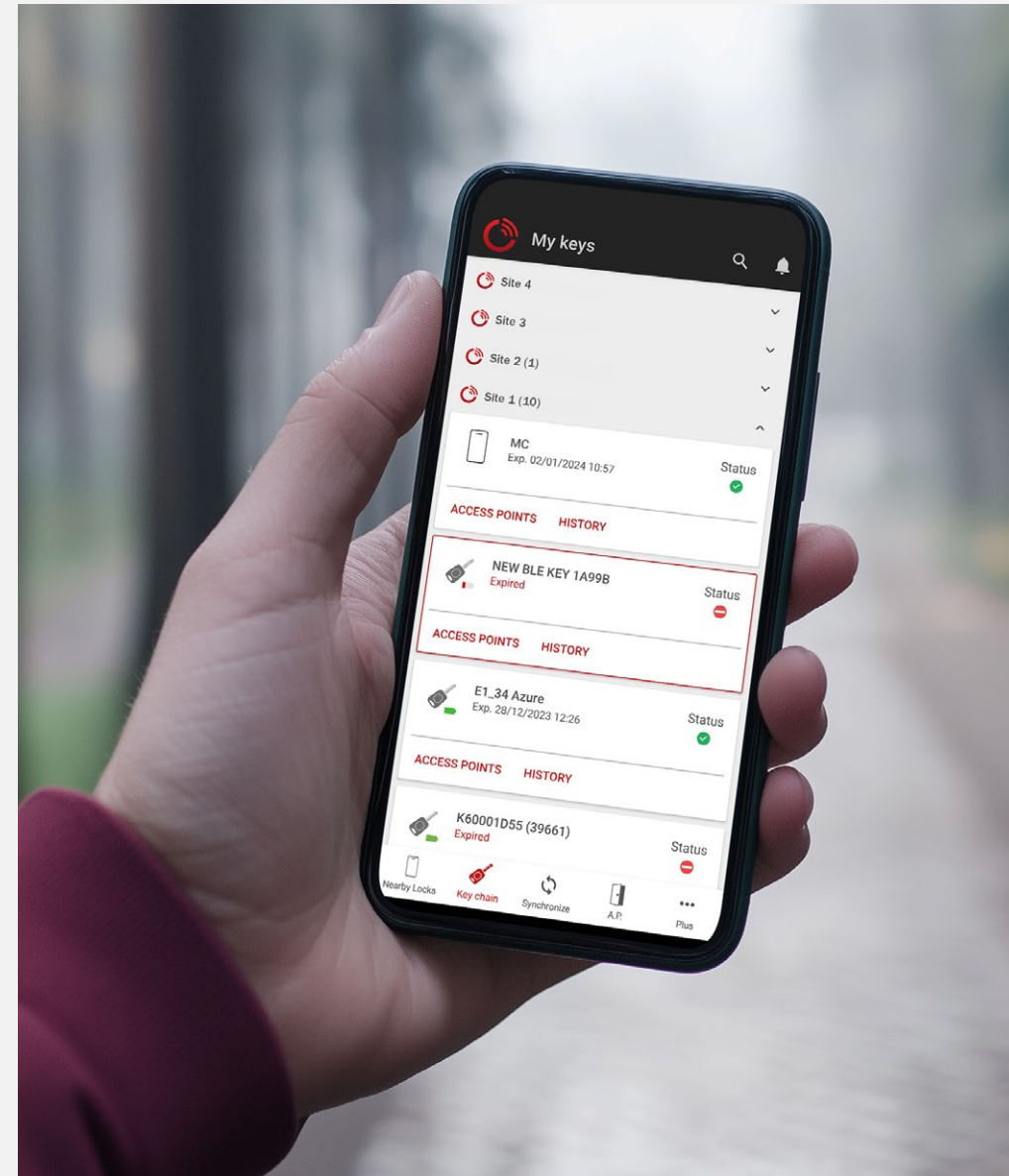
ISEO's MyLocken App leverages **cutting-edge Bluetooth® technology** to transform the way businesses manage access control in telecommunications sites.

Designed to offer real-time capabilities, MyLocken App enhances operations with a range of smart features:

- **Instant access rights updates**  
modify access permissions in real time with a Bluetooth-enabled key, ensuring immediate changes without delays
- **Lost key notifications**  
stay informed and secure with automatic notifications if a key goes missing
- **Unified access schedule management**  
streamline the process by managing all access schedules in one place, making coordination simpler and more efficient

Thanks to advanced technologies like beacon and RFID, MyLocken App also allows to collect contextual data to gain deeper insights into operations, including:

- **On-site presence**  
know exactly who is on site and when
- **Operation duration & authorisation**  
track how long users are on-site and ensure they are properly authorised
- **Anomaly alerts**  
stay ahead of potential issues with real-time anomaly notifications, helping you maintain security and operational efficiency.



# F9000



ISEO's F9000 mechatronic product range, including the F9000 key, cylinders, key boxes, and padlocks, provides telecommunications infrastructures with a comprehensive digital access management solution designed to improve operational efficiency, reduce maintenance costs, and enhance security across their sites.

## KEY FEATURES AND BENEFITS

### ■ REMOTE, DIGITAL ACCESS MANAGEMENT

The F9000 Contactless Key is a virtual container of access rights. It uses Bluetooth® to **allow site administrators to remotely manage access via Smartphones**, providing access for technicians, workers, and subcontractors at multiple sites **without the need for physical key exchanges**. Access rights are granted or revoked digitally, improving operational efficiency and flexibility for teams working across various locations.

### ■ REDUCED MAINTENANCE COSTS

The F9000 products **eliminate the need for constant maintenance**. **Battery-free and contactless** (induction technology), the cylinders, padlocks, and key boxes operate with no power supply required, ensuring long-lasting reliability and reducing ongoing maintenance and replacement costs.

### ■ ENHANCED SECURITY & FULL TRACEABILITY

Each component of the F9000 product range is **equipped with unique, non-duplicable identifiers**, and **access events are logged in the system for full traceability**. In the case of security incident, it can be disabled remotely, ensuring immediate control over security without the need for physical intervention.

### ■ CERTIFIED SECURITY STANDARDS

The F9000 cylinders meet the **EN 15684:2020** certification, and the F9000 padlocks comply with **EN 16864:2017** standards, ensuring that telecommunications businesses are receiving high-quality, certified **products that adhere to the latest security regulations** for access control in telecommunications installations.

### ■ SCALABLE AND FLEXIBLE SOLUTION

The F9000 mechatronic system is **scalable, easily adaptable for mono-site or multi-site**, making it ideal for tower companies or MNOs managing a wide network of sites. Whether managing small telecom hubs or large-scale telecom facilities, **the system can grow accordingly**. Additionally, the optional Mifare chip adds RFID functionality, allowing for even greater access control flexibility.

### ■ INCREASED OPERATIONAL EFFICIENCY

By offering digital access rights and remote management, the F9000 system helps telecommunications companies optimise operations. Mobile workers receive **access authorisations in real time**, allowing them to **perform their tasks more efficiently and with less downtime**.

### ■ RELIABILITY IN HARSH ENVIRONMENTS

Designed to withstand the demanding conditions of telecom sites, the F9000 mechatronic products are **resistant to moisture, dirt, and wear**, ensuring **reliable performance in even the most challenging and remote environments**.

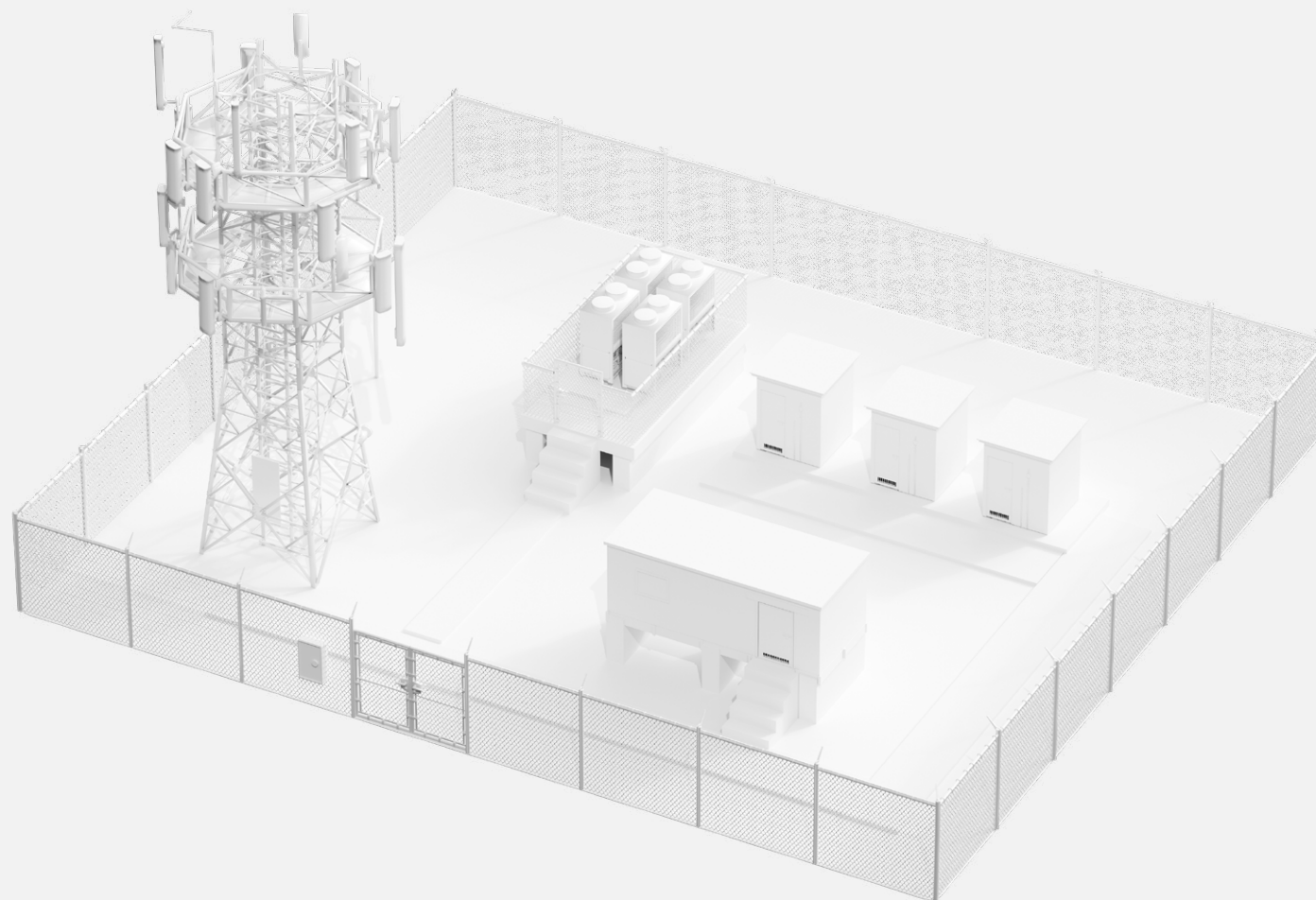


## Services

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## Areas



To discover the products  
recommended for each area

Telecommunications solution  
by areas

Click  to discover more

## Success stories



dstelecom builds and operates an ultra-modern fiber optic network in the lowest population density areas in Portugal, aiming to enable all telecommunications operators to provide their customers with any communication, TV and Internet access services available on the market. The goal is to free people from geographical barriers by building a digital world and by being the driving force in mitigating disparities and asymmetries between densely populated urban areas and regions with less population density.



With approximately 86,000 radio towers spread across ten different countries, Vantage Towers stands out as one of the leading tower companies in Europe, connecting people, businesses and internet-enabled devices both in urban and rural areas. It enables seamless communication while promoting shared solutions to reduce costs and environmental impact. Committed to sustainability, Vantage Towers adopts energy-efficient technologies and fosters digital inclusion, shaping the future of connectivity across Europe.

Do you need more information? Ask our experts.







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