

# Infrastructure Solutions - DAS

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# Solutions for DAS as your company needs.

The increasing need for fast connectivity to telecommunications services is a reality and requires the implementation of specific infrastructure, able to ensure the reliability of systems.

It is with this objective that the Clemar presents and develops its activities for DAS solutions.

## Benefits:

- Increase the quality of the cellular network capacity and performance;
- Reduced implementation costs of telecom infrastructure through shared use;
- High quality coverage for cell phone and Wi-Fi through the latest technology;
- Flexible designs for multiple operators and technologies without additional works;
- Simple installation for service providers and non-intrusive for daily building operations;
- Wireless network access improvement for visitors and employees, regardless of the operator in use;
- Cutting edge infrastructure and technology at no cost to the organization.

## Complete infrastructure for DAS systems:

### Permits

Viability of sites for deployment (acquisition) and full licensing.

### Executive project (infrastructure)

#### Infrastructure

Building, AC power, emergency DC and CA (GMG), grounding system and FDAS, HVAC systems, supervisory systems and remote access, structured cabling, optics fiber, supply and assembly of structures for antennas support.

#### Installation

Commissioning, integration and implementation of equipment, assets and liabilities.

#### Tests

Testing and optimization to get the best possible service.

#### Supervision - NOC (Network Operation Center)

Monitoring and management of generated alerts, acting preventively and proactively in order to maintain the Telecom environment as stable as possible.

#### Maintenance

Preventive and corrective maintenance.





Environment for operators

# Integrated solutions for DAS systems.

## Rooms

Room to house several operators equipment with full and shared infrastructure, including: AC power, DC power, air conditioning, access control, CCTV, timely and early detection system, fire alarm, automatic combat with inert gas and automation system .  
Service up to four operators.



DAS rack



Fire system

Framework for measuring operators

Electromechanical infrastructure



Rack attenuators





## Integrated Container

Shelter for equipment with complete infrastructure, equipped with AC power, DC power, alarm, fire combat and air conditioning. Service up to four operators.

## CelPoste

Shelter for equipment in mast to implement compact sites alongside walking routes and squares, parking lots and exhibition centers, without requiring large investments and useful area of demand.

Service to two operators.



## Underground shelter

Airtight shelter, for underground, self-elevator and ventilated for deployment in compact sites alongside walking routes and squares, without requiring large investments and useful area of demand, with a significant reduction of the visual impact.

Service to two operators.



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