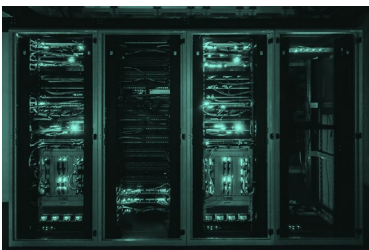# Dome

## Antifragile private 5G

Dome is a sovereign, 5G standard-compliant software solution for private networks. Flexible and easy to manage, it allows organizations to improve their business through advanced digitalization and secure connectivity.

## Benefits

- Compact & cost-effective solution for private/corporate operators

- Fast installation, IT-like operation & provisioning procedures

- 100% software-based & cloud-native implementation

- Full control of data with high level of security

- Guaranteed performance and Quality of Service

- High data rates and low latency for innovative professional applications

## Key features

- **3GPP 5G SA compliant architecture**
  - Quality of Service enforcement
  - Distributed deployment with Local Breakout

- **Cloud-native platform**
  - Deployment on standard IT equipment
  - Container-based Network Functions
  - Kubernetes automated and immutable deployment

- **Scalability and High Availability**

- **Security**
  - Advanced Security mechanisms
  - SIM-based cellular authentication, confidentiality and integrity mechanisms
  - Subscriber Identity concealment

*Dome easily adapts to any kind of form factor.*

obvios.

*Connect with trust*

# Dome

## Examples of applications

**Mission-Critical Services** for defense and public safety, **ad-hoc deployment of tactical bubbles**
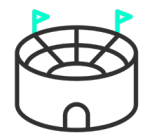
**Fast and reliable connectivity** of machines, sensors, actuators and screen terminals **on the factory floor**

**High bandwidth private mobile radio services on power plants**
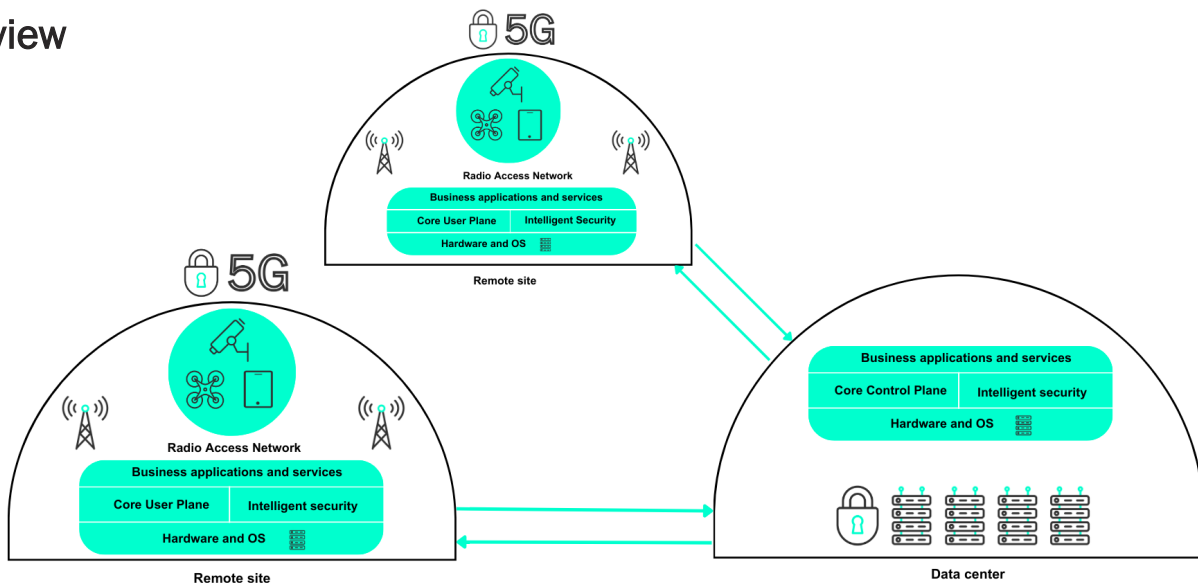
Wireless data connection of **medical equipment in hospitals to enhance their flexibility of use**

**Coverage of live events on venues, festivals or densely populated places** with wireless production equipment

## Overview



🔒 5G

Radio Access Network
Business applications and services
Core User Plane | Intelligent Security
Hardware and OS
**Remote site**

🔒 5G

Radio Access Network
Business applications and services
Core User Plane | Intelligent security
Hardware and OS
**Remote site**

Business applications and services
Core Control Plane | Intelligent security
Hardware and OS
**Data center**

## Specifications

- **3GPP Release 16 5G Core Network Functions:**
  - 5G SA Core Network Functions: AMF, SMF, UPF, PCF, AUSF, NRF, UDR,UDM

- **Scope of deployment:** Private network only

- **Deployment on Kubernetes clusters with GitOps-based declarative model**

- **Deployment on Virtual Machines**

- **Cyber-security algorithms:**
  - Ciphering: NEA0, NEA1, NEA2, NEA3
  - Integrity: NIA1, NIA2, NIA3

- **Operation and maintenance:**
  - Web-based portal
  - REST APIs for authentication, device provisioning, logs and metrics
  - Single Sign On authentication

- **Supported devices and applications:**
  - Numerous RANs, Autonomous Mobile Robots, industrial routers, HD video cameras, mission-critical devices, drones, enterprise VoIP and conferencing, 5G ruggedized tablets, smartphones, etc.

## About Obvios

Obvios develops 100% software-based private 5G network solutions.
It's all we do, that's why we are good at it.
Our private 5G connectivity solutions are robust yet easy to deploy and operate.
We aim to make them as straightforward and cost-effective as traditional technologies while ensuring better security and coverage. By leveraging cloud computing tools and methods, we are more agile and responsive in both the development of our private 5G solutions and our client interactions.
Our goal is to innovate and simplify.

**Flash me** to learn more about **Dome**.



## obvios.

*Connect with trust*