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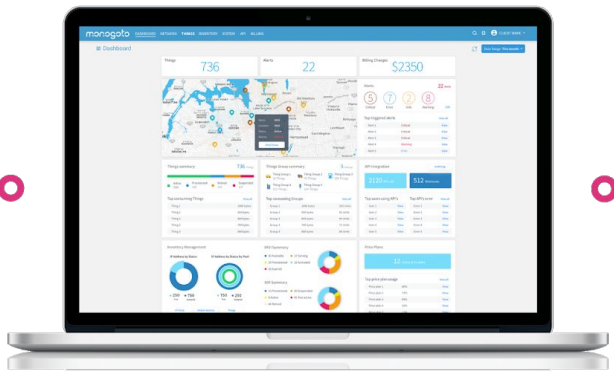
Private LTE



Global ◦ Programable ◦ As a Service

Designed For

Large Enterprise
Governmental Agencies
IoT and Mobile Devices

Market View

Gaining recognition as an all-inclusive wireless communications platform for the delivery of both mission and business critical applications, Private LTE networks ensure guaranteed and secure connectivity, while supporting a wide range of applications such as:

- Safety monitoring
- Operations visibility
- Remote diagnostics
- Asset management
- Predictive maintenance
- Authentication and access control
- Real-time monitoring and surveillance

Unlike WiFi networks, Private LTE can be deployed anywhere, including areas beyond the reach of public mobile network operators while keeping sensitive data "on premise" for security reasons. It enables organizations to customize their networks for mission-critical applications, optimize the network for low latency and support specific SLA – all without interference from the often-congested public wireless spectrum.

Forecasts show private LTE will reach 750M connected devices by 2023 and is a preferred choice going forward for enterprises deploying on premise wireless LAN.

The new era of unlicensed/shared spectrum access schemes opens up multiple opportunities for multiple applications with a different class of service which are going to help enterprises adopt this technology over traditional WiFi.

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monogoto's Solution

For high-profile organizations monogoto offers its innovative private LTE solution. Unlike WiFi networks, monogoto's private LTE can be deployed anywhere, including areas beyond the reach of public mobile network operators while keeping sensitive data "on premise" for security reasons. It enables organizations to customize their networks for mission-critical applications, optimize the network for low latency and support specific SLA – all without interference from the often-congested public wireless spectrum.

The Building Blocks

monogoto private LTE as-a-service solution can run on 3G/LTE including unlicensed 3.5 Ghz CBRS band (USA) and 5 Ghz MulteFire band (worldwide). The monogoto Private LTE solution, is a local cellular network which combined from the following main parts:

Radio	**Any eNodeB SDR or specific band. Deployment over any backhaul . installed at the designated area or campus.**
Network	**Dedicated EPC elements (cloud, local or mix) with self-service console and full API access. It is up to the customer's decision, data and/or signaling remains locally or goes to the cloud.**
SIM	**secure SIM card or eSIM chip contains the cellular profile according to the client needs providing a secure cellular connectivity to/from the end device.**

- National/multinational roaming (optional)

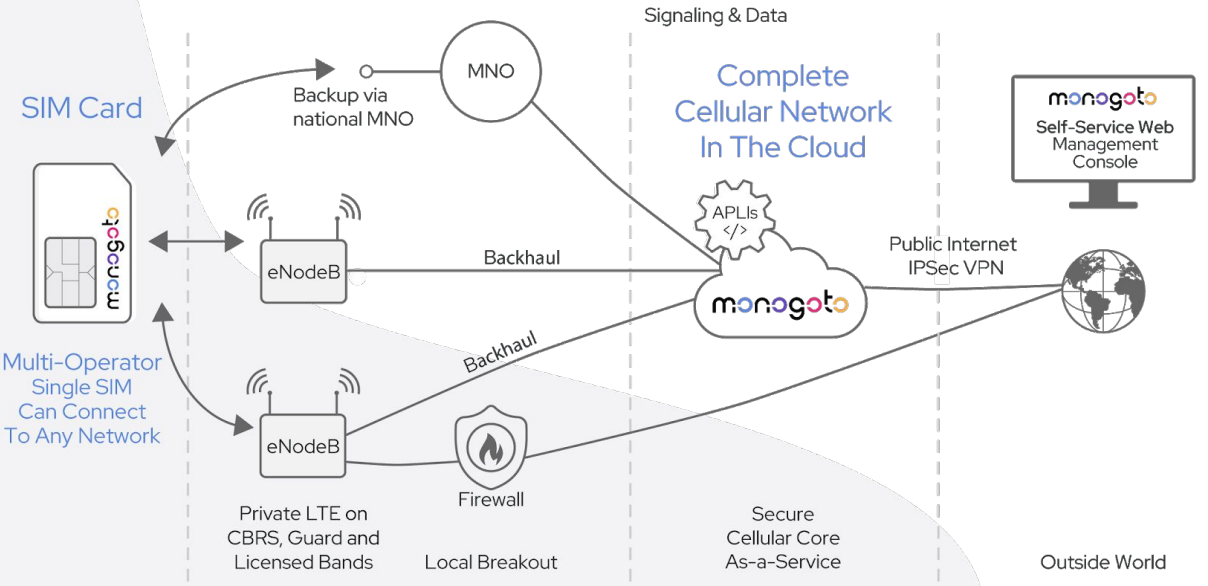
monogoto solution supports specific organization requirements and traffic types optimization independent of the public cellular network providers. (e.g. low latency guarantee for mission critical sensors). Supporting large amounts of secure data transfer, the monogoto's Private LTE solution is suitable for enterprise use cases such as, universities, parks, stadiums, ports, mines, airport, factories and more.

Built for IT/OT People

The monogoto Private LTE solution was built to address the missing puzzle pieces for IT departments. It is fully manageable the same as WiFi networks, without mobile operator engineering resources.

- Setup IPSec VPN
- Setup flexible routing
- Group devices in VLANs
- Eliminate APN complexity
- Assign IP address pools and routes
- Control bandwidth and data utilization
- Configure local/public networks handover

High-Level Solution Architecture



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Technical Specifications

SIM Card	Type	Classic, Industrial, Automotive
	Form Factor	2FF, 3FF, 4FF, eUICC, eSIM
	Technologies	2G, 3G, 4G, LTE CAT-M1, NB-IoT (coming soon)
	Coverage	+170 countries, +500 network
	Multi-IMSI	Dynamic IMSI swap according to business logic
	Profile SWAP	Remote SIM provisioning (RSP) interoperability, OTA
	Roaming Restrictions	Roaming policy for allowed networks
	Steering	Override the operator's defined steering
	HSM	SIM act as HSM to execute cryptographic signatures
Platform	Capabilities	Provisioning, management, monitoring
	Self-Service Console	Flexible billing options for wholesale and retail
	Billing	Define SIM groups policy and business logic
	Event Stream	Action/alert triggers based on metric condition
	RESTful APIs	Embed any function in your existing business processes
	Anomaly Detection	Alerts from: usage, geo-fencing, MITM attack etc.
Security	Signaling Firewall	Incoming/outgoing voice, SMS rules
	IP/Data Firewall	Inbound/outbound IP & protocol rules
	Network Management	Address pools, VPN, routes, NAT, isolation, public and static
	IMEI Lock	Allow SIM for specific IMEI
	SMS VPN	Incoming/outgoing SMS via API
	SMS Home Routing with Spoofed IMSI	Prevent basic ss7 attacks
	Dynamic Registration	Additional registration decision within LU process
	IMSI/MSISDN Decoupling	Protect against ss7 attacks, hide MSISDN from the network (without service degradation)

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About Us

The Team

monogoto's management team brings global telecom and cybersecurity experience with veterans of the elite IDF technological units. Headquartered in Tel-Aviv, at the heart of Israel's thriving tech community, we serve customers throughout Europe, LAMEA, Asia-Pacific and North America, tailoring holistic secure cellular communication solutions.

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