



Cellular IoT Connectivity



Global ◦ Programmable ◦ As a Service ◦

Designed For

Enterprises Organizations
IoT Companies



Our Solution

Key Ingredients



Security

- Full visibility and control - get alerts on any network-related event
- Network-based protection - data / SMS / voice firewall
- Anomaly detection
- Create your own security policy based on traffic and signalling
- Security policy automation - network hardening
- Enhanced data protection - local breakout for data traffic
- SIM acts as secure element (HSM - cold wallet) to perform cryptographic signatures

Control and Management

- Self-service management platform
- +300 programmable (network and core) APIs
- Process automation to harden security and control the SIM life-cycle
- Tailor made offering powered by APIs for any IoT service creation

Services

- Cellular connectivity for IoT/M2M
- Private LTE for connected enterprises and campuses
- Secure cellular core (MVNO)
- White label connectivity reseller platform (multi tenant)
- IoT service creation platform
- HSM/Secure element - secure signatures with AT commands or from the network

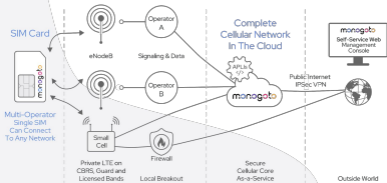
Technologies

- 2G, 3G, 4G, LTE CAT-M1, NB-IoT and 5G ready support eSIM profile
- Private LTE on CBRS, Guard or licensed bands
- Private LTE with local breakout
- Integrated with DPI tools
- Supported by any data protocol MQTT, CoAP, AMQP and more
- Network slicing

Why Connect with monogoto ?

- Full ownership over your SIM cards - control the way they connect and interact with world, using our self-service platform. No more carrier or vendor lock.
- Use the same SIM card anywhere in the world and select which operator provides the radio access at any given time, while always connected to our secure core in the cloud.
- In any way and anywhere you connect, you always have our network-based security and full visibility of all signaling and traffic, supporting your own security policies worldwide.
- Private LTE support with local breakout and network slicing for lower latency and enhanced security.

High-Level Solution Architecture



Technical Specifications

SIM Card

Type	Classic, Industrial, Automotive
Form Factor	2FF, 3FF, 4FF, MFF2
Technologies	2G, 3G, 4G, LTE CAT-M1, NB-IoT (coming soon)
Coverage	+180 countries, +550 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, port & protocol rules
Network Management	Address pools, VPN, routes, NAT, isolation, public and static
Network Security	In band/ Out of band DPI, DLP, IDS & IPS
IMEI Lock	Couple SIM with specific device, deny service otherwise
SMS VPN & Home Routing	Incoming/outgoing SMS via API Prevent basic ss7 attacks with Spoofed IMSI
Dynamic Registration	Additional registration decision within LU process
IMSI/MSISDN Decoupling	Protect against ss7 attacks, hide MSISDN from the network (without service degradation)

About Us

Monogoto is an over the top cloud-based cellular network. Its API-driven Infrastructure as a Service designed from ground up with simplicity in mind to enable cellular connectivity with existing enterprise IT infrastructure.

With over 400 ready-to-use APIs, monogoto offers cellular connectivity with edge to the cloud security for IoT, Private LTE and 5G use cases. No need for special expertise, our services include full audit for all network events with anomaly detection and alerts automation. Our enterprise-friendly solution enables customers to consume advanced cellular VAS with zero CAPEX and "as a Service" business model.

The monogoto network is distributed globally with public connectivity in 180 countries. Helping companies to comply with regulation, the monogoto solution supports on-premise local breakout topology for private networks.

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