Secure IoT Connectivity

Global ◦ Programmable ◦ As a Service

Designed For

IoT/M2M Devices
Connected Enterprises
Governmental Agencies

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

Services

- Cellular connectivity for IoT/M2M
- Private LTE for connected enterprises and campuses
- Governmental 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

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
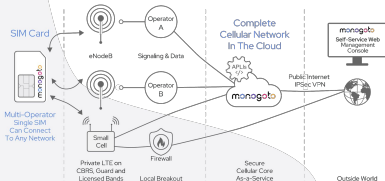
Technologies

- 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

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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

SIM Card

eNodeB

Operator A

Operator B

Signaling & Data

Complete Cellular Network In The Cloud

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Self-Service Web Management Console

APIs

Public Internet IPSec VPN

Multi-Operator Single SIM Can Connect To Any Network

Small Cell

Firewall

Private LTE on CBRS, Guard and Licensed Bands

Local Breakout

Secure Cellular Core As-a-Service

Outside World

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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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