

Virtual SIM Solution

Use-Cases & Benefits

Key benefits

Central management of physical SIM cards

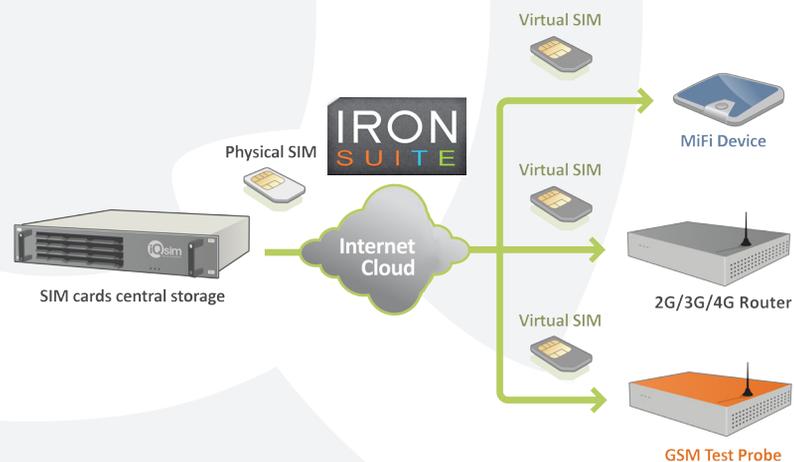
SIM Remote allocation to GSM devices

Share SIM cards across multiple GSM devices

Open API to manage and allocate SIM cards from third-party applications

Automatic selection of the best SIM card depending on multiple criteria (country/time/usage...)

For an enterprise or an operator, **managing a large number of SIM cards in GSM devices located in different locations**, can become a complex and cumbersome process associated with a non-negligible risk of the theft. Each time a **different SIM is required** in a GSM device, someone has to manually swap it with the new one, which necessary requests the availability on site of both the SIM card and the person. **iQsim's Virtual SIM Solution enables to control, manage and allocate dynamically SIM cards remotely on a GSM device.**



Virtual SIM Use-Cases

› LOCAL SIM FOR DATA ROAMING

Local SIM for data roaming is used to significantly **reduce the cost of data communication while abroad**. Travelers are equipped with **MiFi router** which automatically register **«virtual» local SIM cards** at startup to benefit from **internet connectivity over 3G/4G at a low cost**.

› SECURITY TRANSACTIONS FOR E-TICKETING

Secure Application Modules (SAM) are used to **validate end-to-end transactions** between Point of Sales terminals and central systems. iQsim Virtual SIM solution allows for the **SAM to be centralized and mutualized** for greater operational and economic efficiency.

› MOBILE COMMUNICATION

Operators and service providers use SIM virtualization in conjunction with Mobile Routers for **Mobile network QoS/QoE testing** and for delivering **cost-reduction services** on Voice and SMS communication to mobile.



Virtual SIM Solution

Use-Cases & Benefits



iQsim's Virtual SIM solution is built around the following components :

SIM Racks

SIM Racks are equipments where **SIM cards or SAM cards are stored**. iQsim's SIM Rack can host **up to 256 SIM cards in a single 2U Rack**. Additional racks can be clustered when more capacity is needed allowing to store up to 100000's SIM cards.



IRON Suite - the iQsim's SIM Server technology.

IRON Suite is a set of **software elements** which manage Virtual SIM cards.

Virtual SIM allocation to GSM devices can be done in various ways:

- Automatic allocation based on criteria's including time, date, price plan limit and SIM validity
- Allocation through **iQsim's XiQS API** (Application Programmatic Interface)
- Allocation based on **device geographical location** : when a GSM device starts in a given country, IRON Suite allocates a local SIM card matching the device's location.



2G/3G/4G GSM devices

Any GSM device can be connected with iQsim's Virtual SIM solution and **benefits from Virtual SIM capability**. Several solutions can be envisaged :

- **iQsim Devices** : iQsim Mobile Routers and MiFi routers are natively «Virtual SIM» enabled. The SIM Card Management on these devices is fully controlled by IRON Suite.
- **Built-in solution**: iQsim Virtual SIM proxy software can be integrated within the customer's GSM device following iQsim hardware design specifications. This integration is done on a project by project basis.
- **External SIM Flex solution**: The SIM Flex is an iQsim product which enables any GSM modem to become compatible with the IRON Suite. On one side, it gets inserted in the SIM card-holder in **replacement of the SIM card** and on the other side it gets connected to a computer/Rasberry with an USB cable.



Headquarters

«Les Algorithmes Aristote A»
2000 Route des Lucioles
06410 Biot - France
Phone: +33 4 97 04 19 30

Paris, France

Phone: +33 4 97 04 19 38

London, UK

Phone: +44 207 183 3603

São Paulo, Brazil

Phone: +55 11 3526 6745

www.iQsim.com

