

Solution Brief

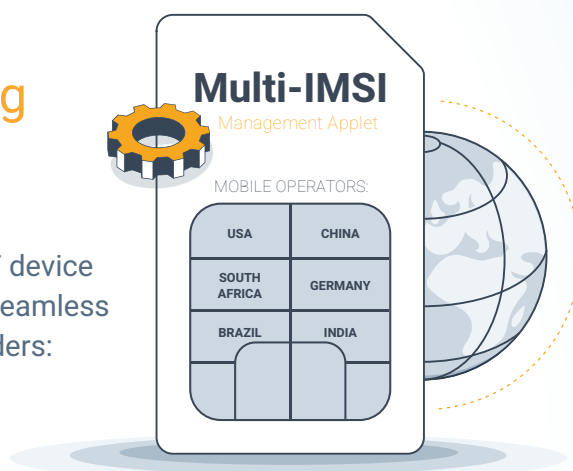
floLIVE Multi-IMSI SIM Applet

Seamless Global Connectivity with Intelligent Network Switching

The Challenge

In today's globally connected world, enterprises and IoT device manufacturers face significant challenges in ensuring seamless connectivity across multiple regions and network providers:

- Coverage Limitations & Network Failures** – Devices relying on a single network provider face coverage gaps and service disruptions. Multi-IMSI technology improves network availability by enabling seamless switching between multiple operators, ensuring devices remain connected even in areas with poor coverage.
- High Roaming Costs** – Without intelligent IMSI switching, businesses are locked into expensive international roaming agreements.
- Complex Connectivity Management** – Managing multiple SIMs for different regions adds operational overhead and supply chain inefficiencies.
- Regulatory Compliance Risks** – Permanent roaming restrictions in certain countries create additional deployment challenges.



To stay competitive, businesses need a flexible, intelligent, and automated connectivity solution that optimizes performance and cost while ensuring uninterrupted service.

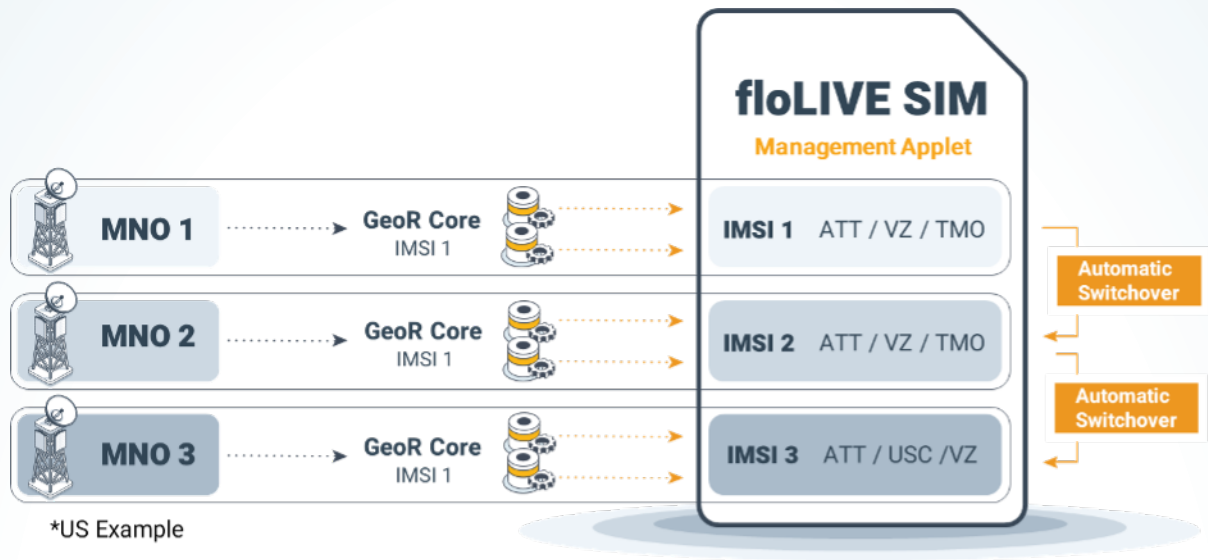
The Desired Outcome

By adopting the floLIVE Multi-IMSI Applet, businesses unlock a smarter, more resilient connectivity solution that ensures:

- **Seamless Global Coverage** – Devices automatically switch between up to 10 IMSIs based on location, network performance, and cost factors.
- **Optimized Costs** – Intelligent network selection ensures cost-efficient connectivity by prioritizing local networks over expensive roaming options.
- **Enhanced Service Reliability** – Ensures devices remain connected to the strongest available network, reducing downtime and service interruptions.
- **Regulatory Compliance** – Adapts to local roaming restrictions by dynamically switching to compliant IMSIs.
- **Simplified Supply Chain** – Single SKU manufacturing allows companies to produce devices once and deploy them anywhere globally.
- **Centralized Management** – Businesses can monitor and manage their global fleet through a single-pane-of-glass platform (UI, and / or API).



How floLIVE Multi-IMSI Applet Enables This Transformation



What is the floLIVE Multi-IMSI Applet?

A SIM applet is a software component embedded in a SIM card that extends its functionality beyond basic authentication. The floLIVE Multi-IMSI Applet enables the SIM to store and manage multiple IMSIs (International Mobile Subscriber Identities), allowing devices to switch between mobile networks autonomously or manually.

Key Features & Competitive Advantages

- **Multi-IMSI Storage** – Supports up to 10 IMSIs on a single SIM, ensuring flexible and uninterrupted service.
- **Autonomous & device initiated IMSI Switching** – Devices intelligently switch based on location, network performance, or cost criteria.
- **API Control & Device-Level Integration** – Enables businesses to manage connectivity via Public APIs or modem-based AT commands.
- **Secure Over-the-Air (OTA) Management** – Remotely update IMSI configurations and SIM settings via SMS or HTTPS.
- **Home Magnet Feature** – Ensures devices return to a preferred network after failover, reducing unnecessary roaming charges.
- **Campaign Management** – Enables businesses to download new IMSIs or apply bulk configuration changes across SIM fleets.

- **Supports Multiple SIM Form Factors** – Works with plastic SIMs, eSIMs, iSIMs, UICCs, and eUICCs, making it ideal for diverse deployment needs.

Industry Compliance & Standards

The floLIVE Multi-IMSI Applet is designed in compliance with globally recognized mobile network standards:

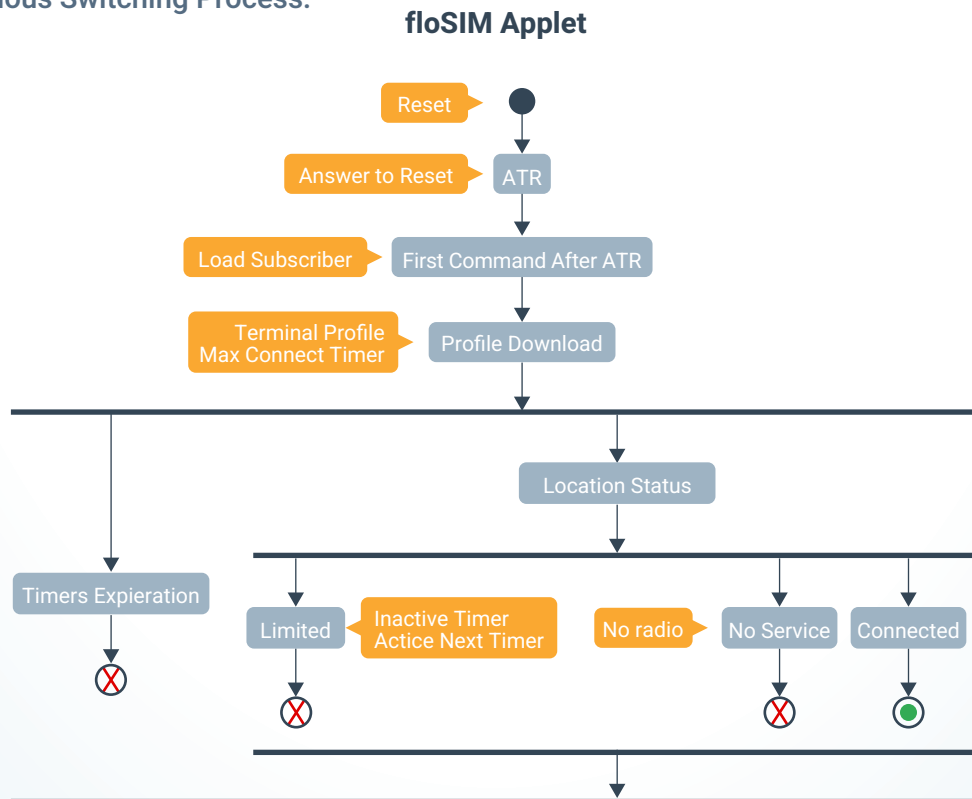
- **ETSI TS 131 102** – Specifies technical standards for UICC, including functionalities for Over-the-Air (OTA) updates and PLMN (Public Land Mobile Network) management.
- **3GPP TS 23.122** – Defines guidelines for network registration prioritization in idle handset mode, ensuring efficient and reliable network selection.

These standards ensure that the floLIVE Multi-IMSI Applet is interoperable with major network infrastructures and meets industry best practices for security, scalability, and performance.

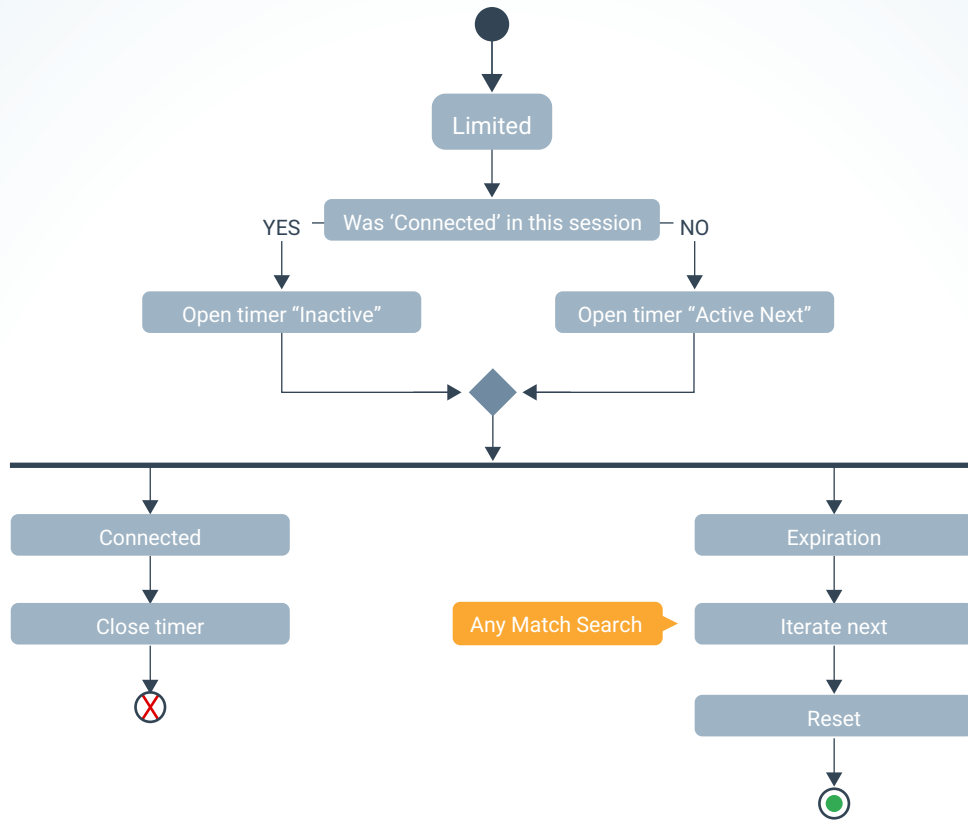
Multi-IMSI Autonomous Switching Flowchart

To illustrate the intelligent decision-making process, the following diagram showcases how the floLIVE Multi-IMSI Applet evaluates and switches IMSIs based on network conditions:

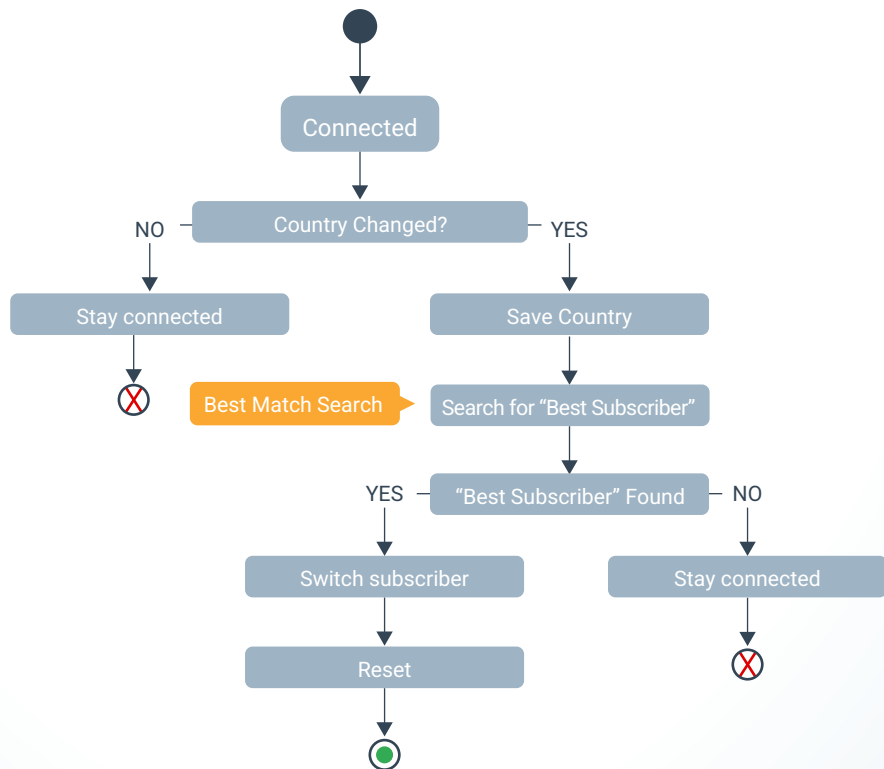
Autonomous Switching Process:



Handling Limited Connectivity:



Connected Network Behavior:



These flowcharts visually explain how the floLIVE Multi-IMSI Applet ensures seamless connectivity, minimizes downtime, and improves network performance.

Patented Innovation for Intelligent Global Connectivity

The floLIVE Multi-IMSI Applet is built on patented technologies that enhance network flexibility and optimize device connectivity:

- **Patent No. 11979940** – Enables multiple IMSI profiles on an eSIM, ensuring seamless network switching and cost optimization.
- **Patent No. 11627448** – Supports fast IMSI switching based on location, improving service reliability and reducing downtime.

Real-World Use Case: Streamline's Livestock Tracking

Streamline, a leading livestock tracking solutions provider, needed an always-on connectivity solution to track cattle across South Africa's vast rural areas, where network availability varies.



The Challenge

- Regulatory compliance required real-time monitoring of livestock to prevent Foot and Mouth Disease (FMD) outbreaks.
- Traditional tracking methods, like RFID scanning, were labor-intensive and ineffective.
- Livestock moves frequently, requiring a network-agnostic connectivity solution.

The Solution: By using floLIVE's Multi-IMSI SIM Applet, Streamline

- Eliminated network lock-in, ensuring always-on connectivity via autonomous IMSI switching.
- Enabled real-time livestock tracking, improving visibility for farmers and regulators.
- Used NB-IoT and satellite connectivity to cover even the most remote areas.
- Achieved lower costs compared to traditional solutions, thanks to optimized IMSI selection.

The Results

- Hundreds of thousands of IoT tracking devices deployed
- Seamless real-time tracking across rural areas
- Fully compliant with South Africa's livestock movement regulations
- Lower connectivity costs and enhanced network redundancy

Streamline's success with floLIVE's Multi-IMSI Applet proves the value of flexible, global connectivity, making it an ideal solution for mission-critical IoT applications.

Why floLIVE?

As a leader in global IoT connectivity, floLIVE delivers an end-to-end managed solution that ensures cost-effective, reliable, and compliant global network access. The Multi-IMSI Applet is a crucial component of floLIVE's innovative IoT connectivity ecosystem, providing best-in-class performance, flexibility, and control.

Unlock seamless global connectivity with floLIVE Multi-IMSI Applet. Contact [floLIVE](#) today to learn more!