

Global Belgium-based Communications Leader: Unlocking the Potential of Mobile Private Networks with SIMbae™

A global Belgium based major provider of IXP and signaling services for Mobile Network Operators, Mobile Virtual Network Operators, Communication Service Providers and enterprises wanted to empower its customers with seamless connectivity beyond network boundaries. Its goal is to ensure high-quality, secure connectivity for Mobile Private Networks (MPNs), allowing devices to switch effortlessly between networks worldwide. It wanted to create a dedicated applet as the foundational solution and needed a reliable partner specializing in SIM applets. SIMbae, Able Device's innovative patented SIM applet, provided the capabilities needed and more. This culminated in a strategic partnership with Able Device, a pivotal move to address the identified gap in the market and meet the needs of a rapidly evolving technology landscape.

“This partnership is another exciting development in the enterprise IoT space. Our IoT solution already makes device activation and connection effortless for its enterprise customers. Now the powerful combination with Able Device's applet software harmonizes seamless mobility of next generation connected devices”. VP of Strategy & Product Management



The Need to Transition Seamlessly Between Public and Private Networks

Companies deploying Stand Alone Private Networks for their enterprise customers - e.g. Systems Integrators- have specific needs for roaming capabilities. They need to be able to trust the SIM to transition seamlessly between public and private networks.

Traditionally, devices moving between a private and public network would have to switch networks manually – often causing performance issues for M2M and IoT applications. Many industries need absolute reliable connections during transitions between private and public networks. While it sounds simple it can be complex, often navigating signal interference and delays. Enterprises investing in private networks want to manage costs effectively and get the most value from their investments, including the need to immediately securely access their own private network when available.

This client was in search of a solution that automates the more technical telecommunications aspects of the IoT and private networks – reducing the barriers to the implementation of seamless switching between networks globally.

Creating the Foundation with SIMbae

A solution beyond traditional methods requiring manual network switches for devices moving between private and public networks was required. Furthermore, it needed to have broader applicability and compatible with any phone brand or IoT device.

SIMbae, Able Device's innovative patented SIM applet, serves as a transformative solution to enhance the SIM or eSIM capabilities. Some of its key features and benefits:

1. Seamless Network Switching- SIMbae eliminates the manual switching of networks. This results in enhanced performance for M2M and IoT applications.
2. Automated Connectivity- As an applet sitting atop SIM or eSIM, SIMbae automates critical functions, including automatic swapping to stronger connections. This ensures consistent and reliable connectivity for connected devices.
3. Advanced Security Features- SIMbae introduces additional security layers such as debugging and encryption, fortifying the IoT ecosystem against potential threats.
4. Transformative Technology- Unlike passive SIM processors, SIMbae represents a new era of SIM cards, turning them into active processors within IoT systems. This paradigm shift reduces reliance on external input, streamlining technical telecommunications aspects for enterprises.

Beyond these features, SIMbae simplifies configuration with no-code scripts, offering predefined templates as customizable scripts for swift implementation without Java Card expertise. This enables introduction of additional features effortlessly and rapidly. SIMbae is also designed as a state machine which gives customers the opportunity to migrate existing applets. Furthermore, it is adaptable to handle potential conflicts among the applet's features and intended use cases, ensuring seamless delivery of the desired overall functionality. This approach streamlines processes, accelerates time to market, lowers development expenses, and enhances the overall quality, security, and efficiency of this client's MPN applet leveraging SIMbae.

The plan is to install SIMbae and specific software customizations on all SIM cards requiring MPN support. This implementation would facilitate the fast transition of devices between public and private networks, offering control and efficiency.

Choosing SIMbae

Criteria for technological solutions led to the selection of SIMbae as the recommended framework. Its flexibility to integrate various solutions made it the perfect choice for developing the Mobile Private Network applet. This decision aligned with the business strategy, ensuring a reliable foundation geared for success.

Versatile Framework

SIMbae's flexibility to integrate various applets and product flavors over the same software base made it the perfect choice for developing the MPN applet. It can adeptly manage applet feature conflicts, ensuring seamless delivery of overall desired functionality.

Reduce Complexity & Speed

SIMbae's no-code configuration scripts allows the utilization of predefined templates or the ability to fully customize for immediate implementation and prototyping. All without any Java Card experience. Minimized development time and delivers new functionality in minutes versus day/weeks.

Scale

The ability to integrate SIMbae at any stage of the mobile and IoT device lifecycle allowed the ability to preload on new SIMs or over the air installs for existing SIMs. It also possesses wider compatibility and works seamlessly with any phone brand or IoT device.

SIMbae's Value

While still early in the widespread use of SIMbae for the MPN applet, it promises to bring unmatched reliability to the MPN ecosystem. As the use of connected devices by enterprises grows increasingly global and complex, both companies aim to remove complexity for businesses and improve the performance of IoT applications through intelligent applications and an open global ecosystem for SIM and eSIM technology.

1 Reliability

SIMbae promises unmatched reliability in the MPN ecosystem, benchmarked against similar solutions by other reputable companies thus setting a new standard for secure foundations.

2 Proven

The framework offers a proven software foundation, ensuring unparalleled trust in the technology landscape.

3 Faster Path to Innovation

This client potentially save years and cost 'reinventing the wheel' when the capabilities needed already existed with SIMbae.



About Able Device

Able Device is a software company established by cellular communication experts with over 10 decades of combined experience in mobile device connectivity, IP, and tools. Our mission is to unlock innovation with the SIM for IoT and private networks. We revolutionize decision-making and automation at the edge, solving complex challenges in managing connected devices and networks.