



CASE STUDY



SIKUR Messenger™ Deploys Scalable Live Video with LiveSwitch Server



The Company

Sikur, the Brazilian cybersecurity firm behind SIKUR Messenger, Sikur ID, Sikur Connect, Sikur Phone, and Sikur OS was founded in 2012 to provide secure file transfers for the financial market. Since then, they have tapped into the encrypted communications market, leveraging their security expertise to develop fully-secure video, voice, and messaging applications and networked devices used by governments and organizations around the world.

“We were identified by Gartner as a Cool Vendor already back in 2015,” explained Alexandre Vasconcelos, Market Intelligence and Pre Sales Director of Sikur. “The secure communications market is still growing quickly today and will continue to grow over the next decade. Organizations are increasingly looking for products like ours.”

A few years after launching SIKUR Messenger for Android, iOS, and Windows OS, the company debuted its flagship Sikur Phone at Mobile World Congress in Barcelona. Their hack-proof phone, designed for encrypted communications, contained the SIKUR Messenger app, enabling a diverse range of private communication use cases including blockchain-based applications.

The Challenge

As a leading cybersecurity company, Sikur was uniquely positioned to develop and launch an encrypted communications platform that enabled video, voice, and messaging capabilities in public and private sector applications that demand the highest levels of security.

About Sikur

Secure communications company with offices in Brazil, US, Portugal, and France; distributors in the Middle East and Asia. The product portfolio includes SIKUR Messenger, Sikur Phone, Sikur OS, Sikur ID, Sikur Connect, and Sikur One.

Target Markets

- Healthcare
- Financial
- Retail
- Oil & Gas
- Government

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-Alexandre Vasconcelos,
Market Intelligence and Pre Sales
Director of Sikur

Initially, simple peer-to-peer video, voice, and messaging capabilities were sufficient to meet their target market's usage patterns, but as their portfolio grew, they required a live video solution that could be deployed at scale to reach emerging markets and satisfy customers that required larger session sizes and higher levels of concurrent user streaming.

The Requirements

"Companies and governments are becoming more selective about the communication products and networked devices they use," explained Alexandre. "They wanted secure solutions custom-tailored to their exact needs."

SIKUR Messenger's live video, voice, and messaging component required unique media handling and encryption that would guarantee the utmost security and privacy across all communication channels. Additionally, it was important that SIKUR Messenger would have cross-platform capabilities such that interconnection between the broadest range of devices and clients would be fully supported.

Turning to Frozen Mountain

Sikur had been a customer of Frozen Mountain in the past, leveraging the IceLink and WebSync SDKs to deliver simple peer-to-peer live video between devices. "At the time, we were providing

secure file transfers and needed a low-latency file transferring solution, but we knew we needed more," said Alexandre. "That's where Frozen Mountain came in."

IceLink and WebSync initially provided Sikur with the capabilities to establish live video, voice, and data streaming peer-to-peer. However, as SIKUR Messenger's scope evolved beyond the small session sizes these SDKs could provide, they needed a live video media server that matched their current and future scalability requirements.

Integration

After considering their options, Sikur selected LiveSwitch Server and integrated it with their existing codebase and infrastructure. Using LiveSwitch Server's Xamarin library, Sikur developed and launched Sikur Messenger for iOS, Android, and Windows.

"We were able to embed live video and voice chat into SIKUR Messenger and offer device coverage for iOS, Android, and Windows OS," Alexandre explained. "We also knew that given time, we could seamlessly extend support to a wider range of platforms using LiveSwitch Server's libraries."

"LiveSwitch Server enabled us to deploy our solution at any scale we wanted."

-Alexandre Vasconcelos, Market Intelligence and Pre Sales Director of Sikur

The Results

The ease of deployment enabled Sikur to meet their diverse client needs. Companies in highly regulated industries such as healthcare, finance, and banking use Sikur's products to mitigate and eliminate the loss of sensitive patient and customer data and, in the process, meet many of the most stringent data privacy regulations worldwide.

"In several use cases, SIKUR Messenger has been an attractive solution for governments and organizations seeking closed-ecosystem communication solutions that operate freely from geopolitical influence," said Alexandre.

"We are seeing that the solution works for a vast spectrum [of clients]. We offer it to small companies, such as insurance companies, for up to 500~ users. Then if the business requires more, they can easily increase up to 4500 users. Additionally, they can either purchase cloud or on-premise and scale to thousands as well," said Alexandre. "Sikur easily spools up more instances on the cloud infrastructure as our clients demand more capacity. LiveSwitch helped us deploy our solution at any scale we want."

Typical Client	Sikur	Concurrent Users	LiveSwitch Instances
Small businesses	Saas	≤ 500	1
Enterprises	Cloud or On-Prem	500 to 4500	Up to 9
MNCs, governments	Cloud or On-Prem	4500 +	More than 9

Learn More

Visit www.sikur.com/sikur-messenger/ to learn about SIKUR Messenger and try it out.

Visit www.frozenmountain.com/liveswitch to learn how to deploy scalable live video with LiveSwitch.