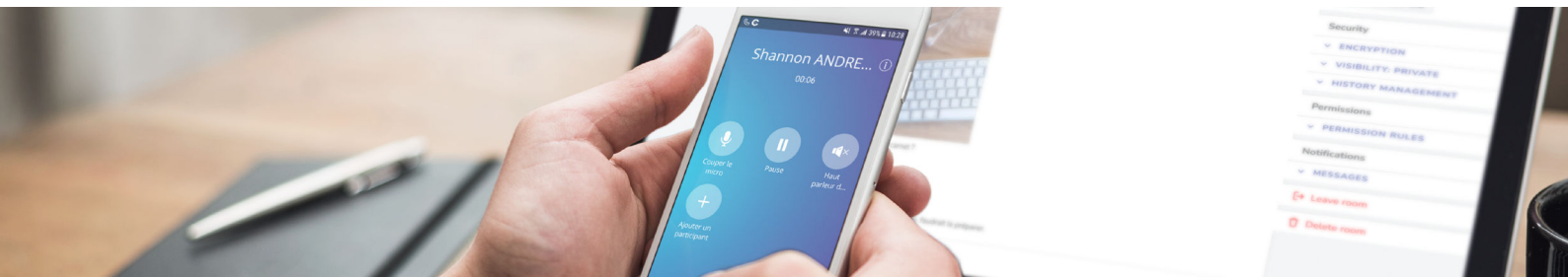


Olivier Caminati, Head of R&D and Product at Thales Digital, and Chloé Dubant, Marketing Manager at Thales Group

Secure Communication

VoIP

Encryption Libraries



**The VoIP and encryption technologies developed by Belledonne Communications are core components of Citadel Team, the secure communications app by Thales Group.**



Over **10** years of collaboration



**4** dedicated Thales developers working on the integration and maintenance of the technology within Citadel Team



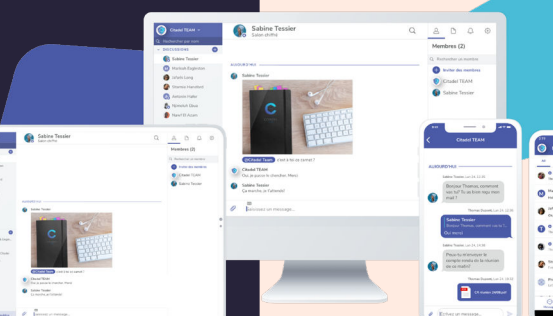
**2** platforms supported : iOS and Android

In a context of rapidly growing cyber threats, protecting sensitive communications has become a critical priority for organizations. The demand for secure communication solutions is surging.

**Thales**, a French electronics giant known for its expertise in aerospace, defense, security, and ground transportation, is also a leading player in mobile cybersecurity and a recognized specialist in secure collaborative solutions. A prime example of this expertise is **Citadel Team**, Thales' secure VoIP communication application available on both iOS and Android.

This app is based on **Belledonne Communications' Liblinphone** library enabling voice and video calls over the Internet with integrated end-to-end encryption. This technology guarantees a high level of confidentiality and transparency by ensuring that only authorized recipients can access the content of communications.

*« End-to-end encryption guarantees that only users' devices can decrypt the messages, guaranteeing complete confidentiality of communications. »*



### Key Requirements from Thales :

- ✓ VoIP technology based on the SIP protocol (widely adopted and reliable)
- ✓ End-to-end encryption using the ZRTP protocol
- ✓ French open-source solution with a license model compatible with closed-source integration
- ✓ Compatibility with both iOS and Android platforms

## Why Thales Chose Belledonne

*"We operate in highly sensitive environments — Defense, Government, Ministries... Our clients demand the highest level of vigilance regarding the technologies we deploy",* explains Chloé Dubant.

Thales' R&D teams quickly turned to Belledonne Communications for their rare expertise and trusted solutions, which met stringent security requirements—particularly their mastery of end-to-end encryption and SIP protocol.

## The Dual Licensing Model: A Strategic Choice

The **Liblinphone VoIP library** and **BZ RTP encryption library** were integrated into Citadel Team under a **proprietary license**, enabling Thales to safeguard its own innovations and enhancements within a closed-source model.

This approach gave Thales the flexibility to develop its own user interface while retaining full control over its codebase and intellectual property. Thanks to the dual licensing model, the company was able to build its own SaaS solution and deploy a SIP service within its infrastructure.

**"We integrated these tools into our Citadel app very easily," confirms Olivier Caminati.**

## Open Standards and Interoperability

For Citadel Team, Thales specifically sought an open-source solution that would support internal development and long-term maintenance. Belledonne distinguished itself through its use of open standards like **SIP and ZRTP**, enabling rapid implementation, broad interoperability, and multi-platform compatibility.

**"Open source was essential to guarantee transparency and support code evolution," says Olivier Caminati. "Compatibility with SIP and ZRTP protocols was key. Lastly, working with a French software vendor was a strategic asset in addressing sovereignty concerns."**

## A Flexible and Forward-Looking Solution

By leveraging **Belledonne's open-source components**, Thales

## About Belledonne Communications

Founded in 2010 by **Simon Morlat** (creator of Linphone) and **Jehan Monnier**, both former Hewlett Packard engineers, **Belledonne Communications** specializes in telecom software development (VoIP, video calls, instant messaging).

The company publishes several open-source solutions including:

- The Linphone softphone
- The Liblinphone SDK
- The Flexisip server suite
- Complementary modules for encrypted content

Their mission is to equip secure communication developers with innovative and cutting-edge tools.

delivers **secure VoIP services in SaaS mode**, deployable on **Cloud or SecNumCloud architectures**.

**"Belledonne Communications' technological and commercial flexibility allows us to offer tailored solutions and integrate emerging technologies rapidly," concludes Olivier Caminati. "That's what makes Citadel Team one of the most advanced solutions on the market."**

## Belledonne's Offerings for Thales



**Support contract:** bug fixes, ongoing maintenance, and expert technical guidance.



**Aide au développement :** feature development, custom integration, and architectural support.



**Source code license:** integration of Linphone technology into a proprietary solution.