

Increase operational capacities and effectiveness



Introduction

Atos Digital Soldier System is a light communication system that combines maximal efficiency during operations with a dramatically reduced equipment weight. It is directly derived from Auxylium, the communication system used daily within the French Army. It benefits from all the developments and tactical evaluations performed with Auxylium since its initial 2016 deployment. Atos Digital Soldier System integrates with software radios, command and control systems as well as a wide range of hardware devices. It delivers a shorter response time on the battlefield for enhanced reactivity and superiority.

An open, radio-based technology

Atos Digital Soldier System is an innovative communication system based on smartphones. Its software suite enables all forces involved in a specific operation to exchange information rapidly and securely.

This modular system is based on Helium, a communication hub with unparalleled capacities:

- High bandwidth with multiple networks, including software-defined radios of any type, private and public LTE, as well as satellite communications
- Resilience and ultra-high-speed mobile communications for more flexibility and adaptability to answer specific demands of many types of operations,
- Encrypted communications with central or tactical server,
- Integration with battlefield management systems.

Fully evolutive, scalable system

Designed in France and marketed internationally, Atos Digital Soldier System is fully customizable and scalable. It has been enhanced with feedback from numerous operations and soldiers of all ranks. The solution offers an extensive roadmap of ongoing innovations, including the integration of various kinds of connected objects, connexion with C4I systems and more.



A proven system

Atos Digital Soldier System capitalizes on five years' experience within the French Army. The system is the communications and operational backbone of the government's "Opération Sentinelle" counter-terrorism initiative. It has been used to resolve many major incidents involving several anti-terrorist operations. Over 40,000 personnel have been trained to use the system.

Rich functionalities

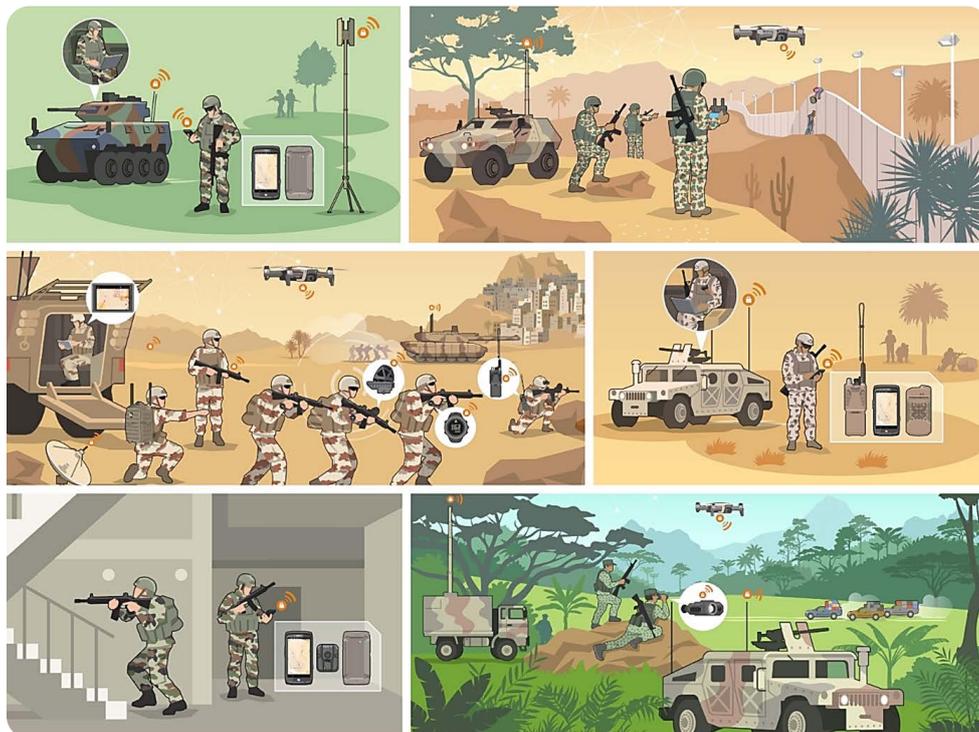
The Atos Digital Soldier System features set is constantly being enriched through an ecosystem of innovations:

- Encrypted audio, video and conference calls,
- Multi-group messaging,
- File sharing for very large files,
- Real-time geo-location positioning,
- Various types of mapping functions,
- Remote smartphone monitoring and wiping,
- Event mapping in simplified format or MIL-STD-2525C and APP6 B.
- Integration with Battlefield Management System,
- Integration with software radios,
- Connected objects.



A proven, easy-to-deploy architecture that adapts to missions and environments

Atos Digital Soldier System is adaptable to various kind of situation such as battlefield management, the protection of borders, of sensitive sites but also anti-smuggling, Special Forces...



Atos Digital Soldier System in context





Connected objects

Depending on the mission, connected objects provided by third-party manufacturers can be added to the system to extend user capacities and ensure mission success.



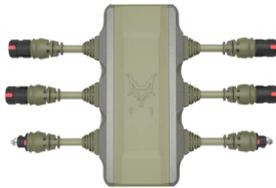
Indoor GNSS



Sniper detector



Camera



Control unit



Binoculars



Connected watch



Headset



Drone



Connectivity Hub



InEar headset



Battery



Helium hub

High level of integration with existing environments

Functional modules can be added to existing solutions or can be developed to meet specific needs. The level of security and type of hardware involved will depend on the nature of the mission and how critical it is.

Finally, Atos takes a flexible approach when it comes to contracts: offering SaaS (software as a service) options for smaller organisations, hybrid alternatives for more complex organisations.



Key features

- Secure, proven, reliable and available
- Intuitive user operation
- Multi-language, multi-mission
- Rich functionalities
- Push-to-talk functions
- 2D and 3D mapping, geo-location and guidance
- Integration with several software radios
- Private 4G LTE communications
- Autonomy
- Scalability
- Night and day operations
- Integration with connected devices



Implementation

- Integration with command-and-control systems
- Central and/or tactical server infrastructures
- Specification and installation of complex antennae systems
- Team training
- Secure hosting on dedicated hardware or in the Cloud
- Rapid response



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Let's start a discussion together



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