

Ardaco, a.s. is an innovative leader in the area of Information/Communication Technology and Information security. Ardaco provides, its own developed, fully scalable Silentel® platforms for secure mobile communication including voice, data communication and messaging. In addition Ardaco provides full range of its own developed products in the area of electronic signature, including Qualified Electronic Signature QSign (certified by National Security Agency), QSign archive, QSign e-invoice, QSign e-registry, all for secure and cost effective handling of electronic documents. Individuals, organizations and companies can reliably protect and secure their communication and information with full range of Silentel® and Q-Sign products.

The company was founded in 1996 by a group of technical experts and in the coming years pioneered several new technologies, including patented Electronic Paper Protection Technology (PDMark®), Qualified Electronic Signature Solutions (QSign™) and secure voice communication system for mobile smartphones Silentel® CSD (known also as SecureCall™). In 2008, as one of the first companies worldwide, Ardaco created a new IP based product package for secure voice/data communication and messaging called Silentel® IP (known also as TeamTalk™). In 2010 Ardaco pioneered a new secure messaging system for mobile communication and world most innovative and economical mobile communication solutions for military, police, crises management organisations, integrating Team Talk with typical military or police existing infrastructures such as radios, satellite communication and private communication systems.

Ardaco had its customers and partners in over 20 countries worldwide, including Europe, Middle East, Africa, Asia, North America and South America.



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Silentel® for Mobile Military Forces

Secure your communication
and protect classified information

Conceptual and Technical Description

Silentel®

Enjoy
the world
of secure
communication

Sintel for Mobile Military Forces

Sintel is a new state of the art solution addressing the needs of the modern Military Forces in any country.

The solution is based on the Ardaco technology platform Sintel. Sintel is a new, modern and open platform developed and owned by Ardaco for secure and flexible communication purposes. E.g., the platform is applied in the European Union project for secure communications for crisis management in EU countries. Many Military Forces around the world are already starting to deploy this technology for their specialized secure communication.

The solution is extremely easy, cheap and fast to implement and to operate. All what users need for their communication is to have:

- Standard mobile phone
- Standard PC/Laptop with internet connection
- Sintel software being installed on the mobile phone and/or PC.

No special infrastructure – Integration with existing infrastructure

Implementation of Sintel system does not require any extra costs for any special dedicated infrastructure. Sintel is designed to operate on standard hardware and network infrastructure.

Sintel client application is running on standard mobile phones, PCs, laptops and allow to use basic mobile operator network (2G network is sufficient), Wi-Fi or any other internet connection.

Sintel can easily extend your existing communication infrastructure with secure mobile communication. PBX / IP PSTN and Military tactical radios can be interconnected with Sintel system using **Sintel Gateway**. Interconnection can be deployed in both classified and unclassified modes.

Secure communication interconnection of more geographic locations

Sintel Servers (deployed on different geographic locations) can be interconnected. This solution allows users within one Sintel Server to communicate with users on different Sintel Server.

Each Sintel Server has its own administration with full control. In case that connection between Sintel Servers is not available each Sintel Server operates independent.

Server interconnection can be extended with **Multiple Bearer Router (MBR)** to have capability to carry several different internet connections. MBR is designed to optimise network performance wherever users operate in environments where connectivity is poor. It makes best use of all available bandwidth, detects and automatically responds to network changes.

Maximum mobility and availability anywhere in the world

Sintel System is easy and fast to deploy anywhere in the world, even in the areas without network infrastructure. The area of Mobile Command Centre can be covered with usage Wi-Fi Mesh Network. The interconnection with Headquarter can be established using satellite communication (SATCOM) or any available internet connection.



Mobile Vehicle Units can be extended with **Data Control Unit (DCU)** to establish mobile ad-hoc network even outside of Mobile Command Centre. DCU have capability to dynamic, unmanned routing of secure communication and data traffic between Wi-Fi, HF/VHF/UHF radios and satellite communication.

Sintel client application is able to dynamically enable particular communication services based on connection availability or quality.

Examples:

- Wi-Fi is available – Sintel enables all secure communication services
- Only VHF radio is available (VHF bandwidth is not sufficient for voice communication) – Sintel enables only secure text services (text messages, chat, file transfer GPS localization).

Guaranteed security

- Sintel meets NATO security requirements, is certified by several government security agencies and used by many military forces as a product for secure mobile communication. Sintel is approved to be used up to and including **NATO CONFIDENTIAL**.
- Sintel is available either as a pure software solution or as a combination of software and hardware solutions using hardware encryption with a specially designed and secured microSD card – Sintel Mobile Security Card – **Common Criteria EAL 5+** certified.
- Sintel is available for security evaluation up to source code reviews, including security documentation compliant with **ISO 15408** (Common Criteria) and tools with source codes to prove security mechanism that are implemented in line with documentation.
- Possibility to use the own cryptographic algorithm delivered and implemented by the customer.

Communication Channels

- GSM** GSM (Mobile Network Operator)
- Wi-Fi** Wi-Fi (Wireless Mesh Network)
- NET** LAN / WAN
- SAT** SATCOM (Satellite Communication)
- VHF** Radio (VHF)

Communication Services

- Secure voice communication
- Secure text messages / Instant messages (Chat)
- Secure file transfer
- Secure group communication
- GPS

Devices

- Mobile phones
- Tablets / PDA
- PCs / Laptops
- Ruggedized devices

System Configuration and Management

- System and users monitoring
- Providing services of C2 application
- Assigning of the communication features and different rights to the users

Sintel Gateway

- Military tactical radio
- PBX / IP PSTN (Cisco, Asterisk)

