

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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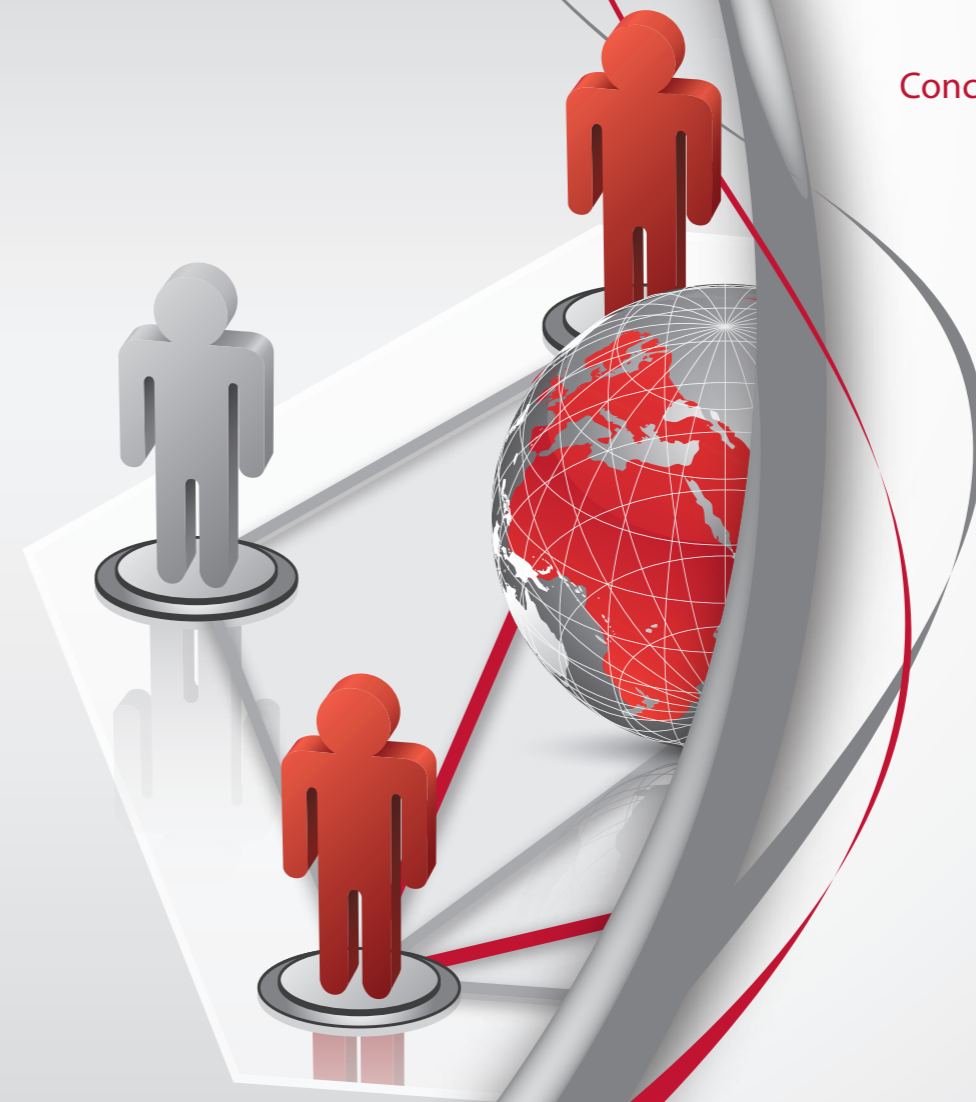
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Silentel®

Mobile Communication System
for Governmental Diplomatic
and Intelligence Services

Conceptual and Technical Description



Silentel®

Enjoy
the world
of secure
communication

Silentel for Diplomatic and Intelligence Services

Silentel secure communication system is a new state of the art solution addressing the needs of the modern Diplomatic and Intelligence Services in any country.

The solution is based on the Ardaco technology platform Silentel. Silentel 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 Diplomatic and Intelligence Services 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 the users need for their communication is to have:

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

No special infrastructure, no special devices which are difficult to operate, no special training and no educational costs are required.

No special infrastructure – Integration with existing infrastructure

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

Silentel client applications are 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.

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

Worldwide coverage – Availability anywhere in the world

Silentel supports all commonly used Internet (IP) network infrastructure platforms available anywhere – mobile operator network, LAN/WAN (present at office/home), Wi-Fi (present at hotels, airports, internet cafes, etc.). It allows secure voice and data (text messages, files) communication with colleagues at office, headquarter or travelling anywhere in the world.

Guaranteed security

- Silentel meets NATO security requirements, is certified by several government security agencies and used by many military forces as a product for secure mobile communication. Silentel is approved to be used up to and including **NATO CONFIDENTIAL**.
- Silentel 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 – Silentel Mobile Security Card – **Common Criteria EAL 5+** certified.
- **No information remains stored on user's device.** It means that sensitive data is not compromised even in case of lost or stolen device.
- Silentel 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 Operator Network)

Wi-Fi Wi-Fi (Wireless Mesh Network)

NET LAN / WAN

Communication Services

Secure voice communication

Secure text messages / Instant messages (Chat)

Secure file transfer

Secure managed conference

Devices

Mobile phones

Tablets / PDA

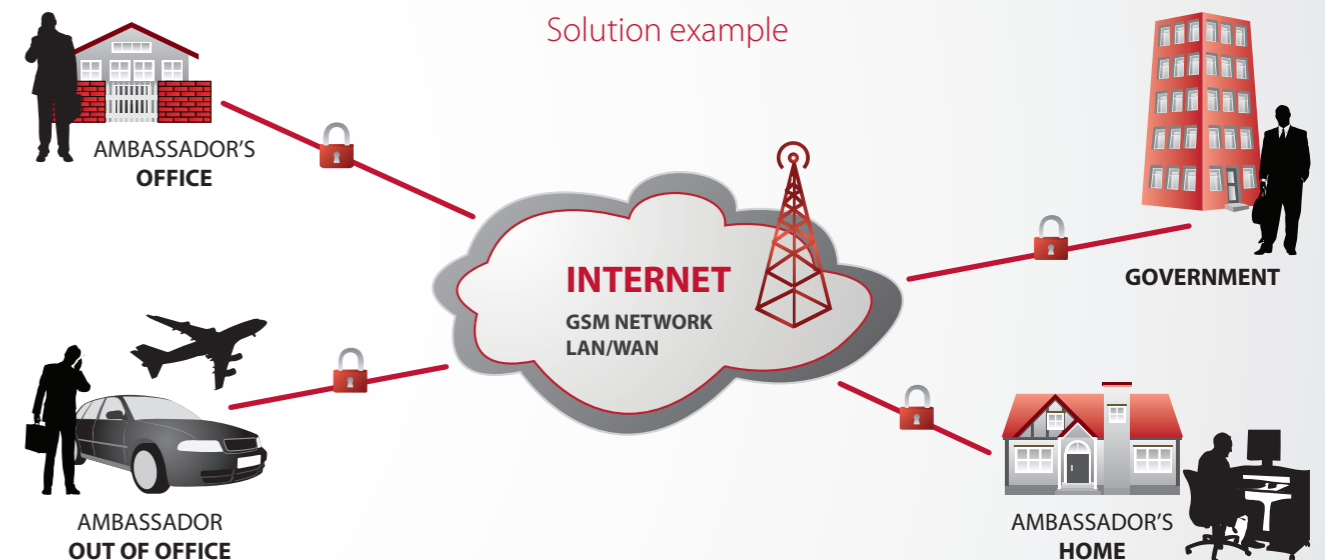
PCs / Laptops

System Configuration and Management

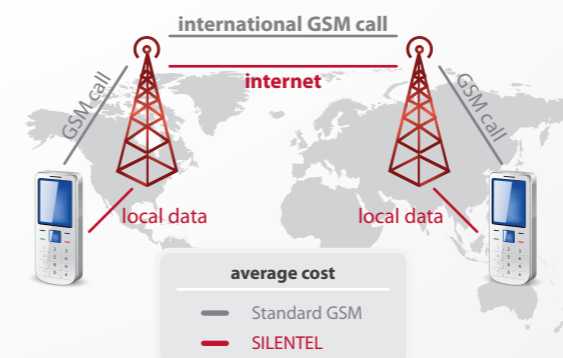
- System status monitoring
- User accounts and contact list management
- Assigning of the communication features and different rights to the users

Silentel Gateway

- PBX / IP PSTN (Cisco, Asterisk)



Solution example



Reduce operation costs

Silentel can significantly reduce charges for voice services due to low amounts of transmitted data, even being used abroad in roaming (in foreign mobile network operators). Moreover it allows to make phone calls completely free of charge anywhere anytime, when operating via Wi-Fi.

Examples of average costs for 60 minutes of voice call:

	Home network	Roaming network	International call
Standard GSM	6,00 €	24,00 €	40,00 €
SILENTEL	0,45 €	16,80 €	0,45 €