goldenCall
Private and Secure Calls

Product description

- encrypted communication tool
- the user can communicate with their contacts on an anonymous basis
- nothing is recorded on the goldenTech server, other than the list of authorized contacts for each user
- there is no recording of conversations and no logging of calls
- available for use by a group of users identified by the first user (Administrator):
  - the group has a single Administrator
  - the Administrator manages the group: they will add the profiles of new users in the group and issue authorizations for communications (who speaks to whom – who can see whom)
  - by default, the Administrator will communicate with all members of their group
- option for communication with other user groups, provided that rights of access have been issued by each Administrator concerned
- Simultaneous connection with multiple groups is not possible. If the user is registered with more than one group, they will only be able to connect to one group at a time

Product technology

- smartphone-installed goldenCall is the primary application for connection to the goldenTech OpenVPN access server (security)
- the smartphone is encapsulated in the goldenTech VPN, and will then be able to access the goldenCall proxy on the goldenTech local network
- goldenCall completes authentication on the goldenCall proxy, which then issues the list of authorized contacts for the user concerned
- during the telephone call, the voice is encoded in 16-bit PCM format
- a status engine manages the transmission of signalling messages on the caller side and the receiver side
- in addition to the secure VPN, the environment in which the proxy is installed is also secured. Accordingly, two layers of security are provided, in addition to voice encryption. Currently under investigation: the potential installation of a third layer of security at the request of the client
- goldenCall operates in 3G or 4H WiFi mode
- For reasons of security, the maker and model of smartphone to be used will be mandatory (SAMSUNG G4 mini or G5 mini with Android)
- if a hacker accesses the conversation, they will only see or hear encrypted information, which they will not be able to decode. They will only be able to observe that a connection has been established in VPN mode

Utilization

1. The smartphone is delivered with the goldenCall application pre-installed. This transaction will be completely anonymous, from the viewpoint of goldenTech. Only Paypal or the issuer of the credit card used will be aware of the client.

2. Configuration of a user profile for the goldenCall application and addition of the OpenVPN certificate. The user will adopt a pseudonym.

3. Once the profile has been created, it will be displayed on the connection screen. The user then presses the "Launch" button.

4. The VPN connection will be established. Authentication will then be required on the goldenCall proxy by entering the user name.

5. goldenCall will then connect to the goldenTech server, which will permit the creation or retrieval of the list of contacts of the user.

6. The list of contacts will be displayed on-screen, with the status of each contact (connected or disconnected).

7. To make a call, the user clicks on the contact in the list whom they wish to reach:

   1. If the contact is connected, a green call button will appear on-screen, and the user will be able to make the call,

   2. If the contact is disconnected, a blue "Wake Up" button will be displayed. The remote contact application will open, if the contact's smartphone is turned on and connected to the Internet. The contact will receive a "connection request" alarm and, if they fail to respond within 30 seconds, the operation will be cancelled.

8. To disconnect, the user presses the "Disconnect" button, and the goldenCall application will return to its initial display mode.

9. In case of problems, a message will be displayed on-screen, offering an option for the transmission of the log file to the support service by E-mail.