



**Kryptotel**

[www.kryptotel.net](http://www.kryptotel.net)

# KRYPTOTEL

IT SECURITY SERVICES & PRODUCT EXPERT



DUBAI | HONG KONG | SEYCHELLES



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# ABOUT KRYPTOTEL

Kryptotel is an IT security services and product expert company headquartered in Dubai, United Arab Emirates.

Founded in the year 2010 in Dubai, Kryptotel has its presence in Dubai, Hong Kong and Seychelles. Kryptotel has a core focus & proven expertise in developing secure communication applications with strong encryption and security features.

Kryptotel has a wide range of product portfolio & has served a number of clients from government, public and private sectors. Kryptotel mainly works in the area of: Cyber Security, Secure Communications, Internet of Things Security, Blockchain Technology, etc.



# MAIN PRODUCTS

Some of the main products developed by Kryptotel are:

**KryptoPhone** - Encrypted Smartphone for secure communications

**Kryptotel Secure VoIP** - Military-grade Encryption, Encrypted Voice & Video Calls

**KryptoChat** - Encrypted Instant Messaging App

**Mail1Click** - Encrypted web & app based mail

**VPN One Click** - VPN cloud service

**VoIP1Click** - Encrypted VoIP entry level

**B1 Router** - WiFi VPN Router

**B1 XMPP** - Encrypted Chat servers

**B1 DNSSEC** - DNSSEC service

# CLOUD SERVICES

Highlights of our cloud services:

142,0000+ active paid users

10,000,000+ users (mainly VPN)

200+ servers in 33 countries



# SOFTWARE DEVELOPMENT

Kryptotel's core team comprises of IT Security and Telecommunication experts with in-depth knowledge of encryption and communication protocols. Our commitment to our clients is that we only deliver the most reliable applications, services and solutions developed by our in-house team of software engineers.

We adhere to proven industry standard methodologies in development of software solutions to ensure high client satisfaction.

## SUPPORT H24

We have a five member first level support team at work who work round 24 hours a day 7 days a week. Second level support is available on escalation level in the same time frame, which can go upto the General Manager's level.

Specific Service Level Agreement (SLA) is available on request.



A close-up, high-contrast photograph of a person's face, focusing on the eye and nose. The image is overlaid with a glowing binary code (0s and 1s) in a light blue/white color, creating a digital or cybernetic aesthetic. The person's skin is dark, and the eye is visible through the digital overlay.

# ENCRYPTION



# ENCRYPTION

## CUSTOM ENCRYPTION

We write custom encryption algorithms and protocols which remain unique. We enhance well known algorithms to have a good base of reliability and worldwide testing without need to discover it. We integrate the custom algorithms in our communication solutions.

Our solutions have typically have an encryption level of RSA 8192-bits for civil usage and RSA 16384-bits for government and defence usage.

## CRYPTEX - CUSTOM SUITE

Symmetric Encryption Algorithm:

Key length 512 bit

Works on block 128 bit (like AES)

From 4 to 99 layers of encryption using well known algorithms: AES 256, CAMELLIA 256, ARIA 256, SEED, AES modified, etc.



## **CRYPTEX - HASH ALGORITHM**

Well tested source code of SHA512

Source code of KEKKAK (SHA3 selected finalist)

## **CRYPTEX - SOURCE CODE**

Written in C ANSI for easy porting in any platform.

Fast execution even in cheap ARM devices like B1.

Well documented for easy security review.

Already ported on all the major operating systems:

iOS, Mac OSX, Android, Windows, Linux, etc.

## **CRYPTEX - KEY EXCHANGE**

TOTP: Time One Time Password

Fast and most secure (RFC 6238)

Modified for easy deployment in the real field

Session keys generated from variable number of SHA512





# KRYPTOPHONE



**Kryptotel**



# KRYPTOPHONE

KryptoPhone is an encrypted smartphone by Kryptotel.

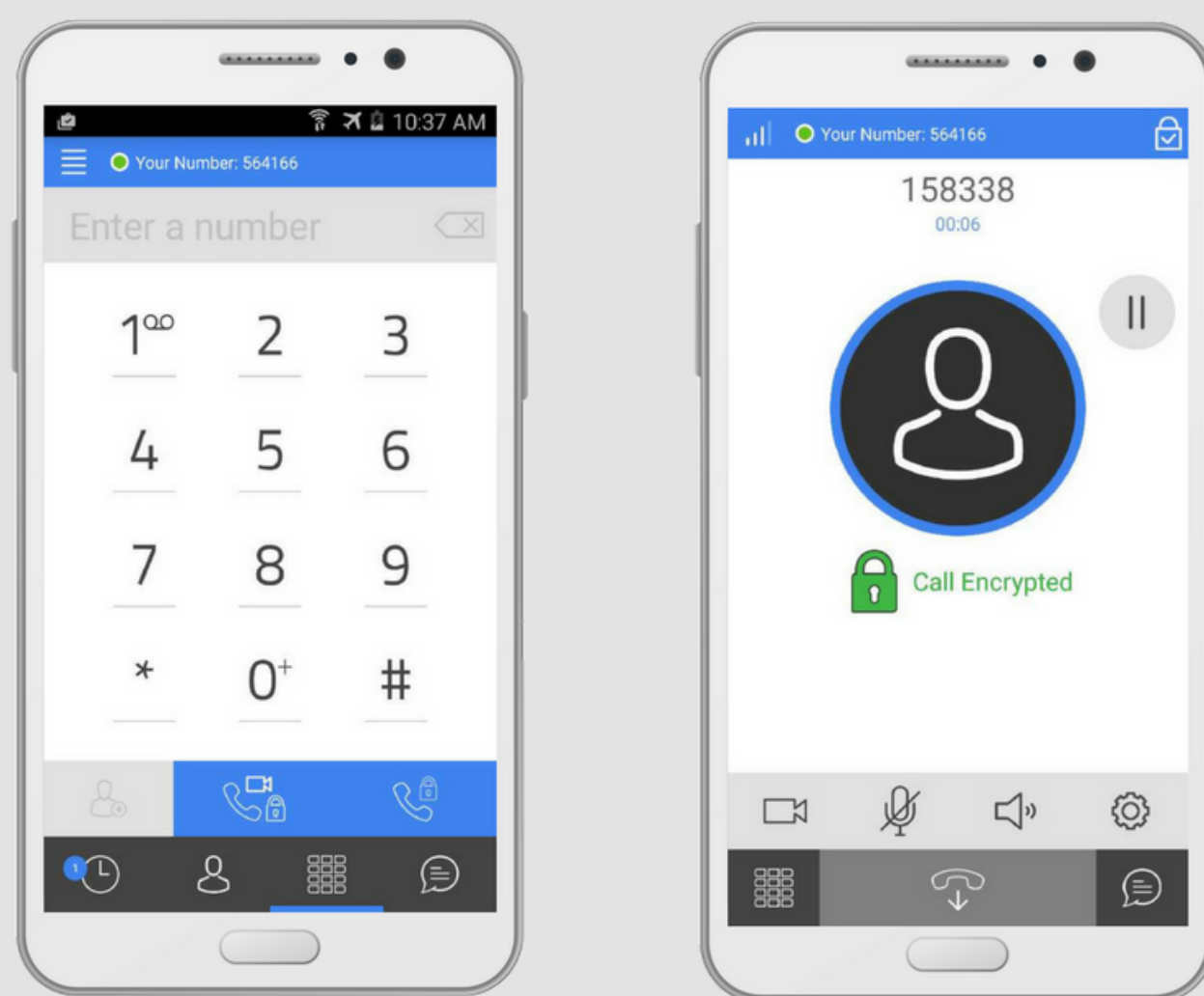
KryptoPhone has following features:

- Encrypted Voice & Video Calls
- Encrypted Instant Messaging
- Encrypted Emails
- Secure Internet Browsing



## SECURE ENCRYPTED VOICE CALLS

The voice calls between KryptoPhones are encrypted by military grade algorithms: From RSA 8192-bits up to RSA 16384 bits & AES 256. The audio quality is crystal clear & without noticeable delay, even when the phones are in different continents.

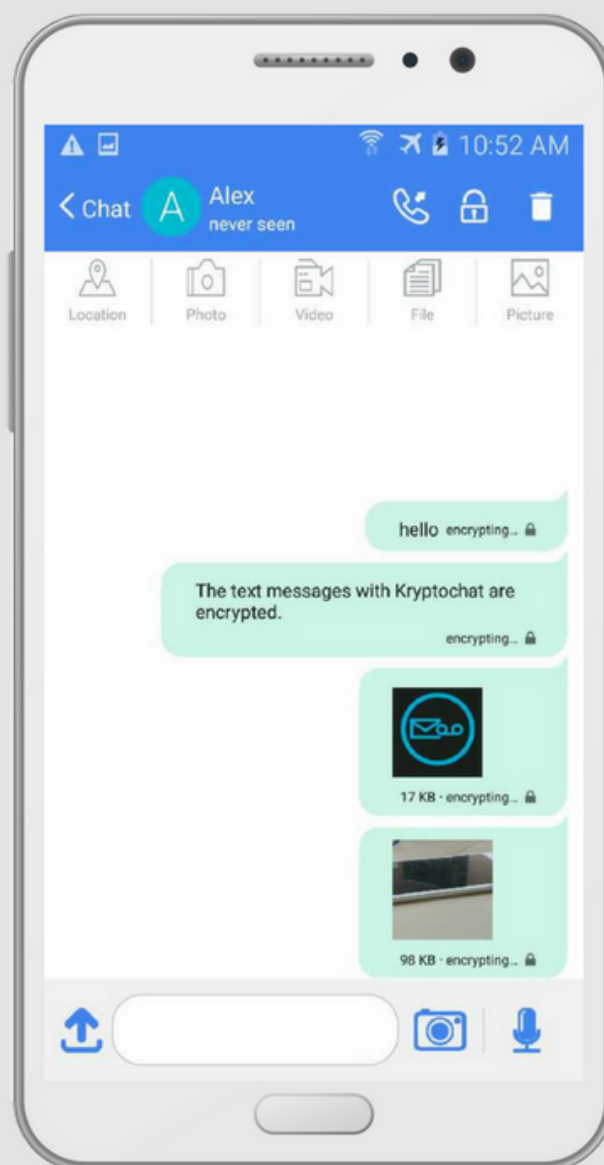


KryptoPhone uses a special communication protocol and it works in every country, even in places where other VoIP applications are blocked.



## ENCRYPTED INSTANT MESSAGES

- KryptoPhone has an encrypted instant messenger protected by military grade encryption up to RSA 16384 bits and AES 256
- The messages are delivered at the destination in 0.5 seconds or stored for a later forwarding if the recipient is not online
- Even the temporary storage is fully encrypted by AES 256
- You can send pictures or videos directly from the camera or from the phone memory

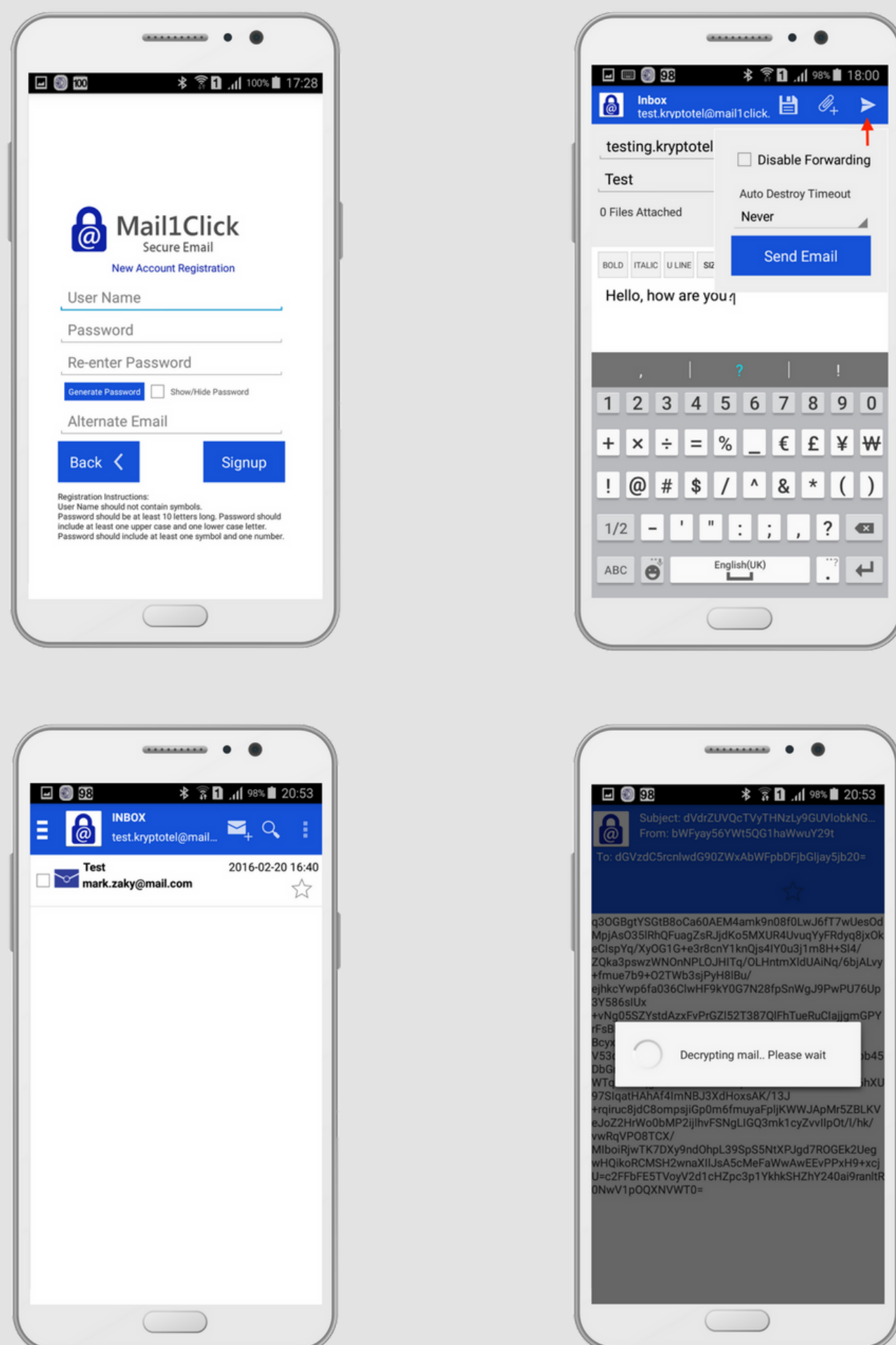


- Preview of the files to be transferred directly on the chat panel
- Transfer in real time different file types stored on memory card (like PDF, xls, doc, etc.)



## ENCRYPTED EMAILS

- KryptoPhone Mail works like any other standard email service, with the addition of a state of the art encryption and electronic signature to your emails
- The emails are fully encrypted by RSA up to 16384 bits and AES 256
- You can send/receive encrypted emails to/from normal email addresses



- The files attached are encrypted just like email body
- No size limits for attached files



## SECURE VPN ENCRYPTED

- VPN One Click enables you to connect anonymously to any public or shared network
- VPN One Click protects your internet traffic from hacking and industrial espionage, hides your real IP address and keeps your privacy on internet browser, email, VoIP and chat.
- VPN One Click connects to our worldwide network of VPN servers located in 29 countries regardless of where you are located.
- VPN One Click uses super strong encryption with RSA up to 16384 bit, AES 256 algorithm and OpenVPN protocol to protect your data at the maximum level
- VPN One Click has an integrated active defence system against >2.000 kind of cyber attacks
- VPN One Click keeps no connection logs, no matter what, only to maintain your privacy



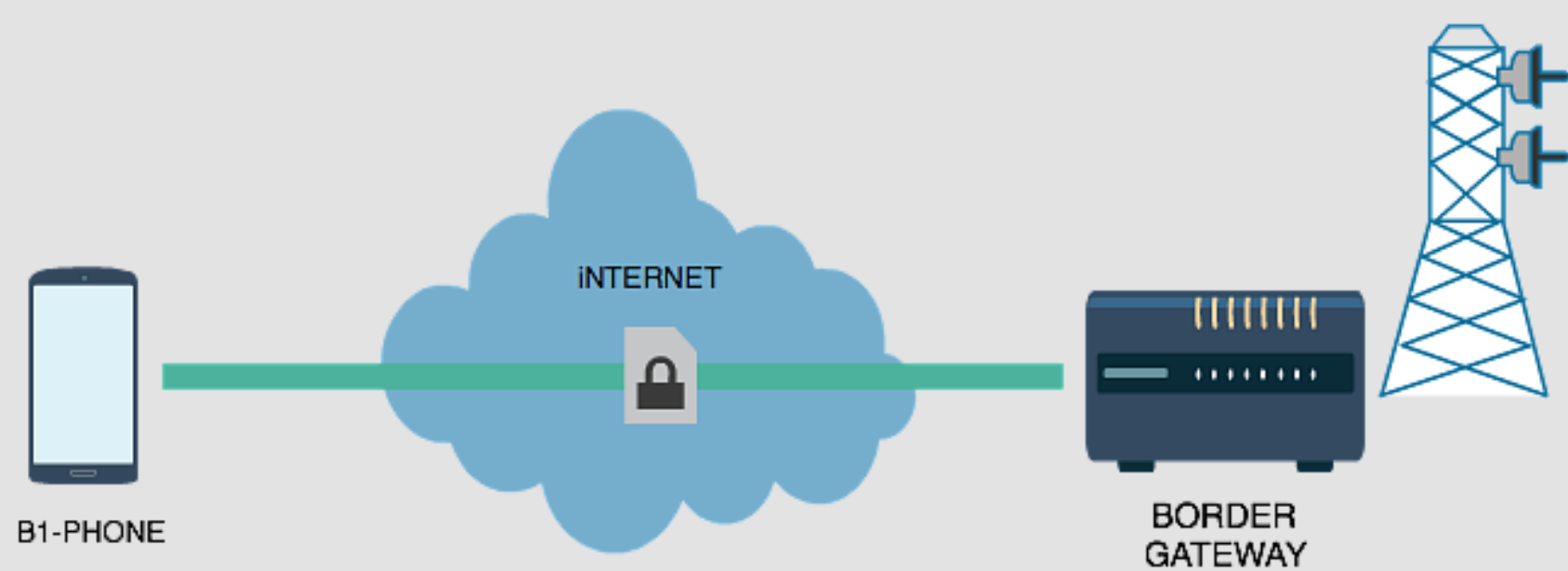
## BLACKOUT CALL

Using the Blackout feature, KryptoPhone allows to make calls to normal mobile and landline numbers in a secure way

Even the IMEI Number is wiped out!



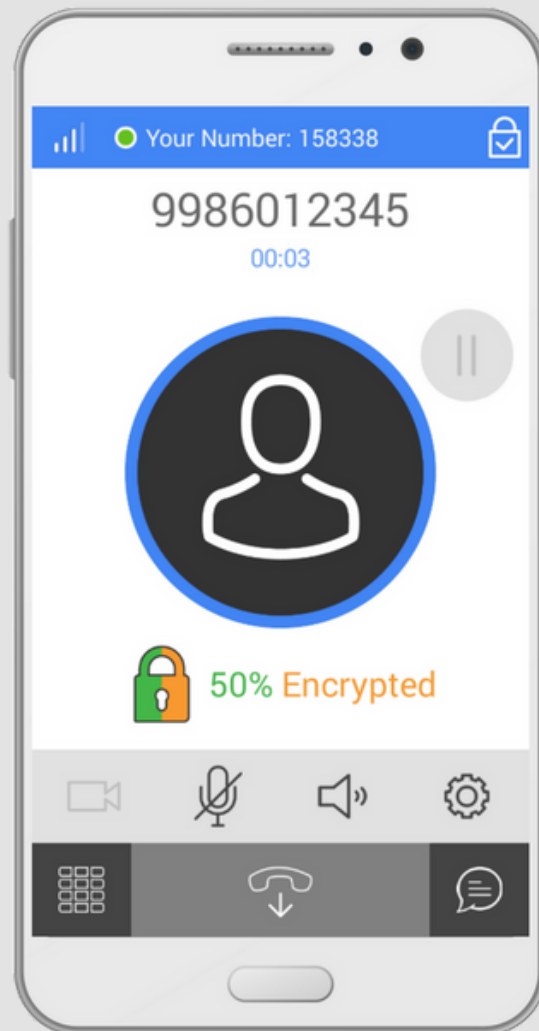
- The call is fully encrypted up to our border gateway with the standard phone network, your network connection is perfectly protected





## BLACKOUT CALL

The Caller ID number is erased and replaced with a random number



- We use > 70 external border gateway to mix your call in millions of other calls
- We keep no connection logs at all
- You are fully anonymous and if you are the target of interception, you cannot be listened to by the interceptor
- In case the normal number that you called upon is targeted, your conversation could be listened but your identity is still safe
- To have a 100% secure call, both Caller and Receiver must use KryptoPhones



MAILCLICK



# MAIL1CLICK

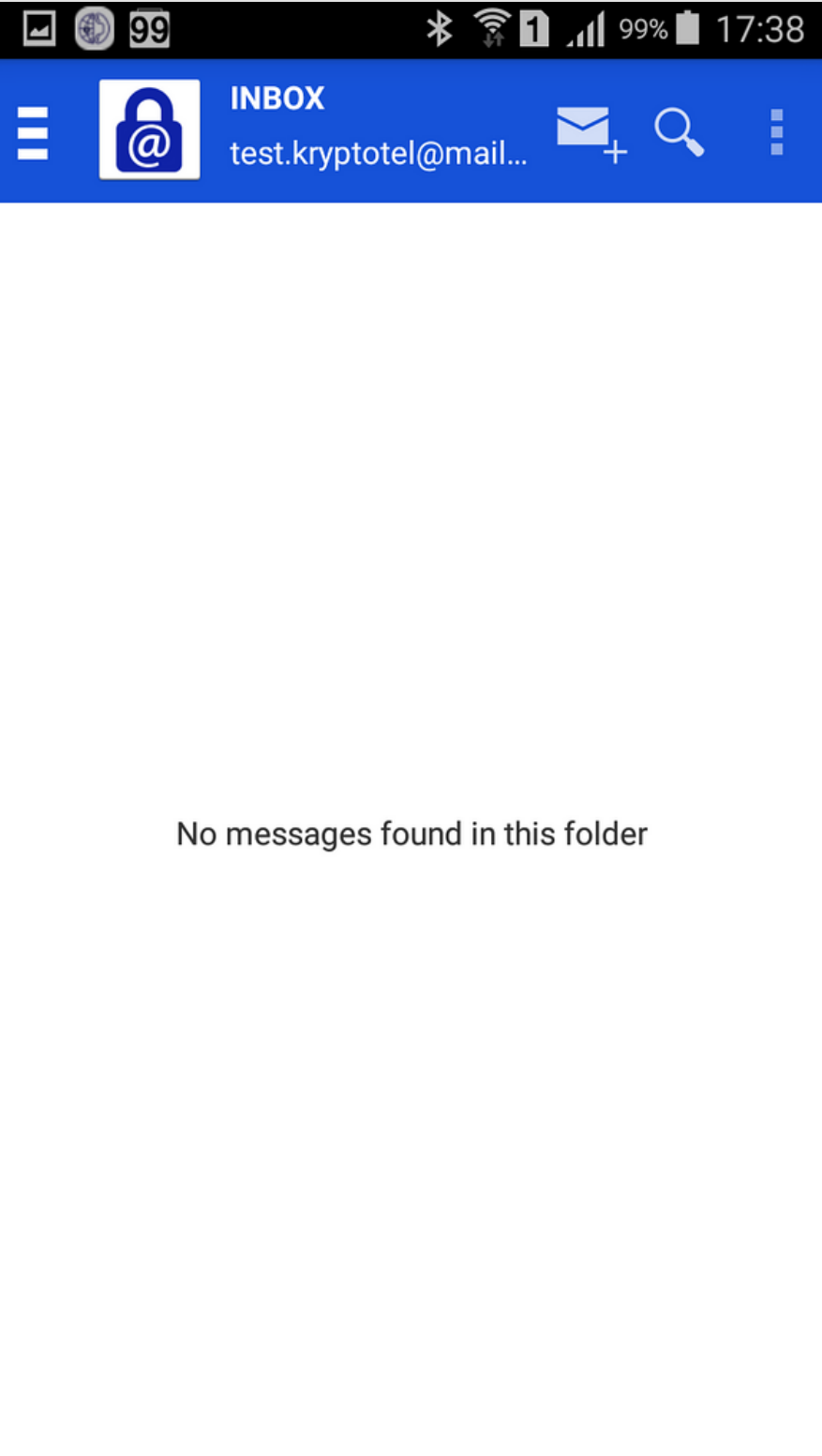
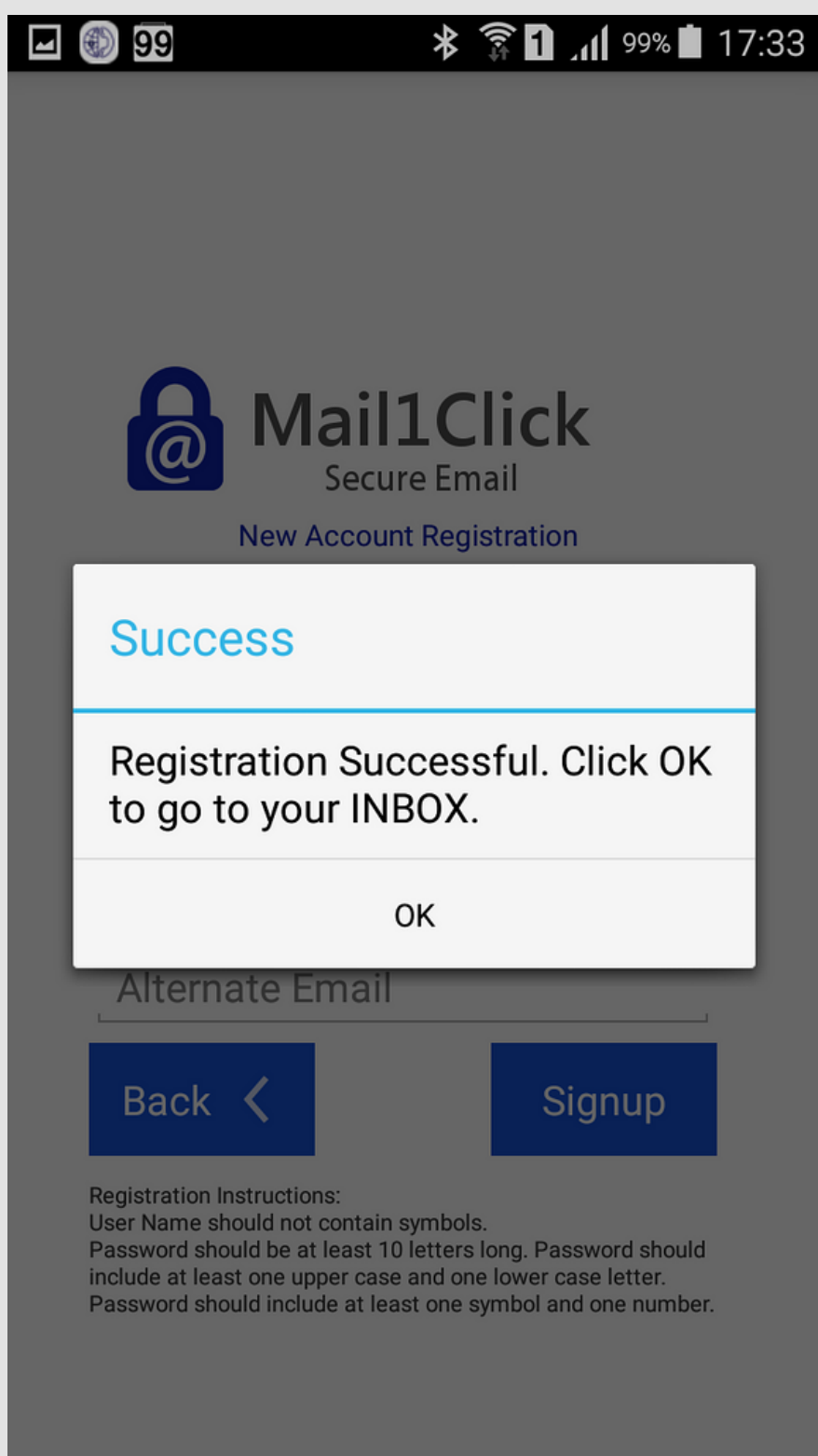
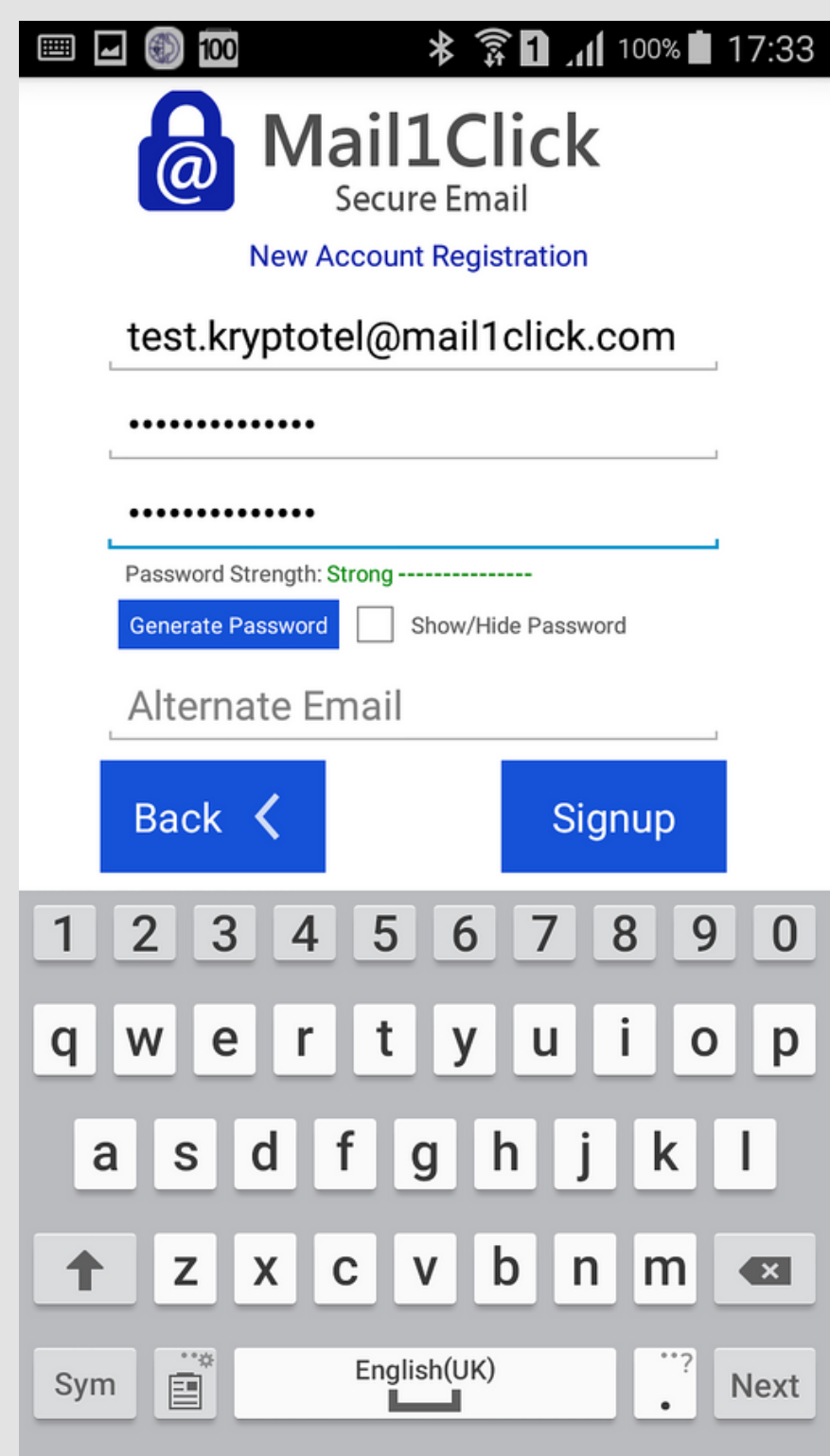
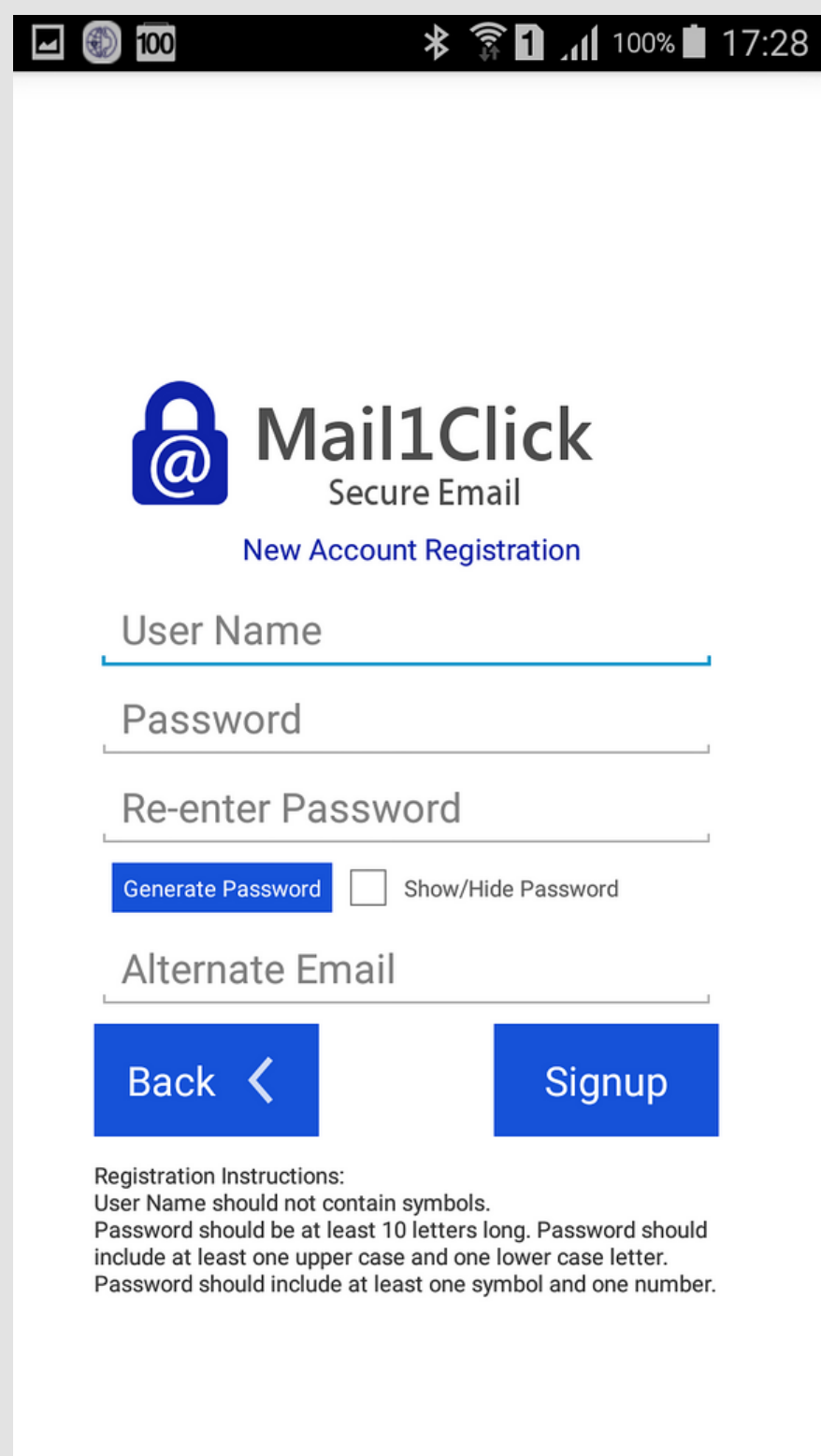
Mail1Click is an encrypted email app from Kryptotel. Below are the highlights of Mail1Click:

- Mail1Click is available on iOS, Android, and Web Interface for computers
- Server based on Linux OS at your preferred location
- Encryption applied to the communication channel, device and server storage
- Source code released to clients, for security review
- Easy to use, it signs, encrypts and decrypts automatically with RSA 4096 bits up to 16384 bits, AES 256 (or custom algorithms)
- Communicate with external email addresses creating temporary accounts in the system (optional)
- API for developers in XML semantic
- Simple and easy-to-use interface
- Account creation in few seconds
- No personal details required
- Send and receive encrypted email from any Mail1Click user



# MAIL1CLICK

## Screenshots:

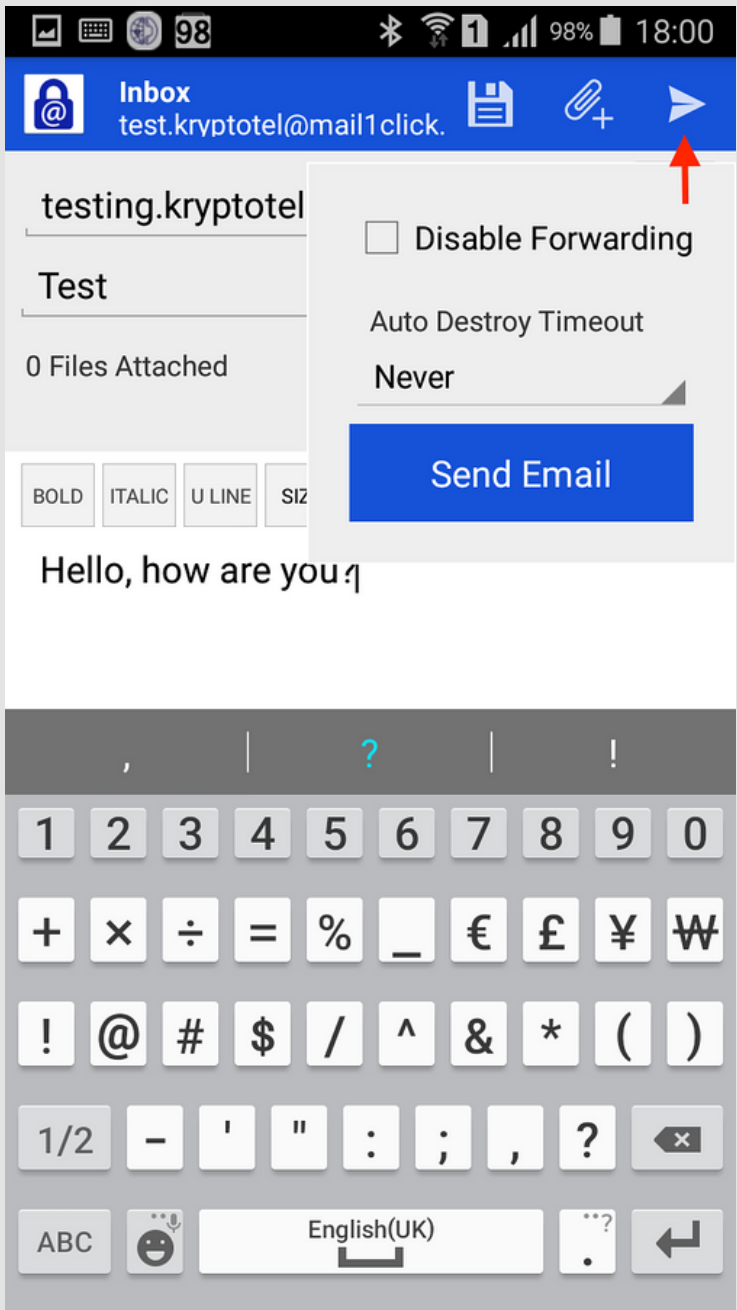




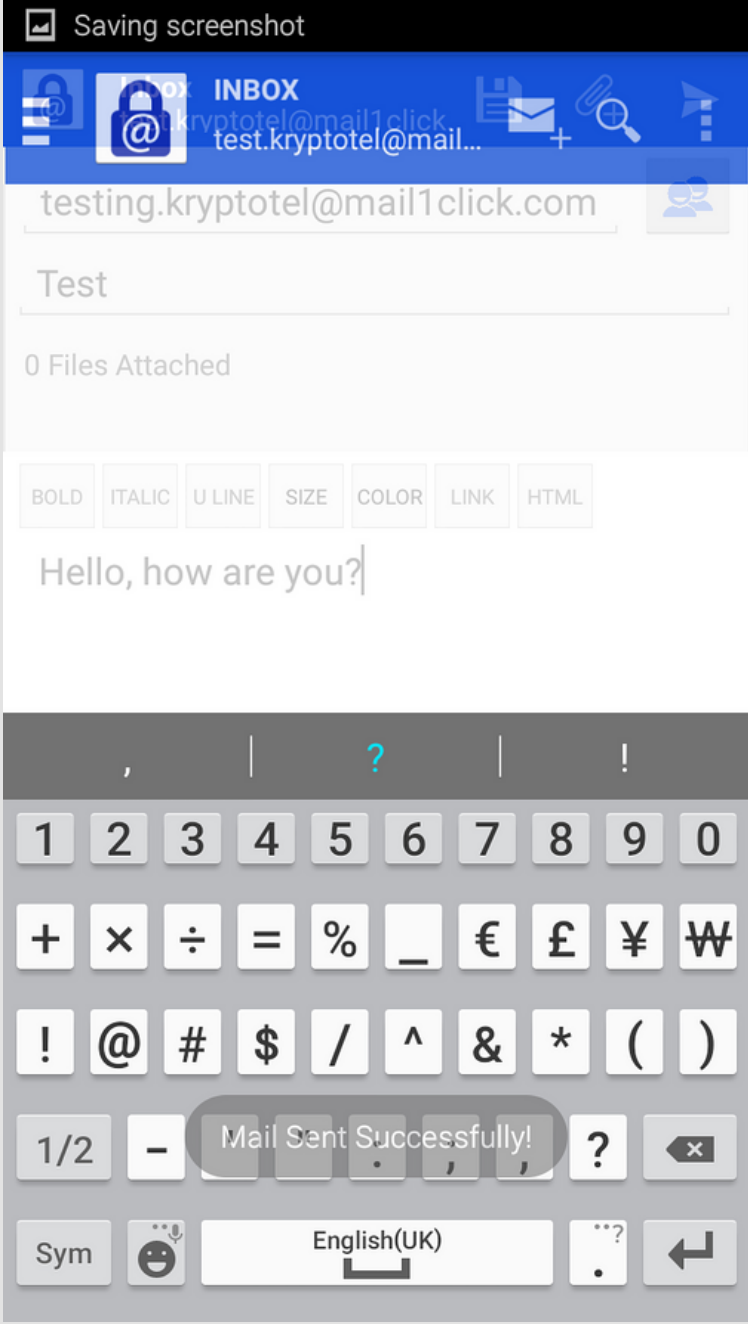
# MAIL1CLICK

Sign and encrypt emails automatically

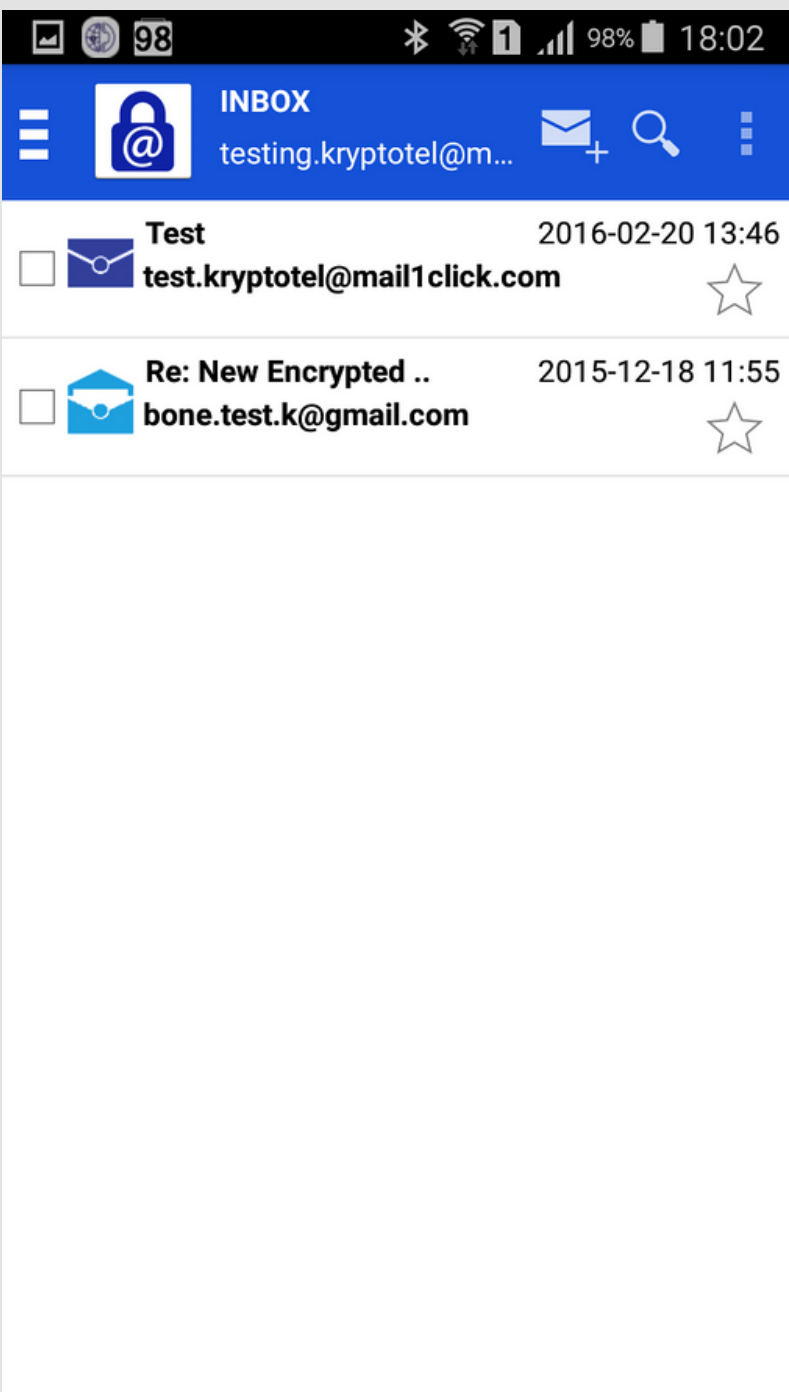
## Sending



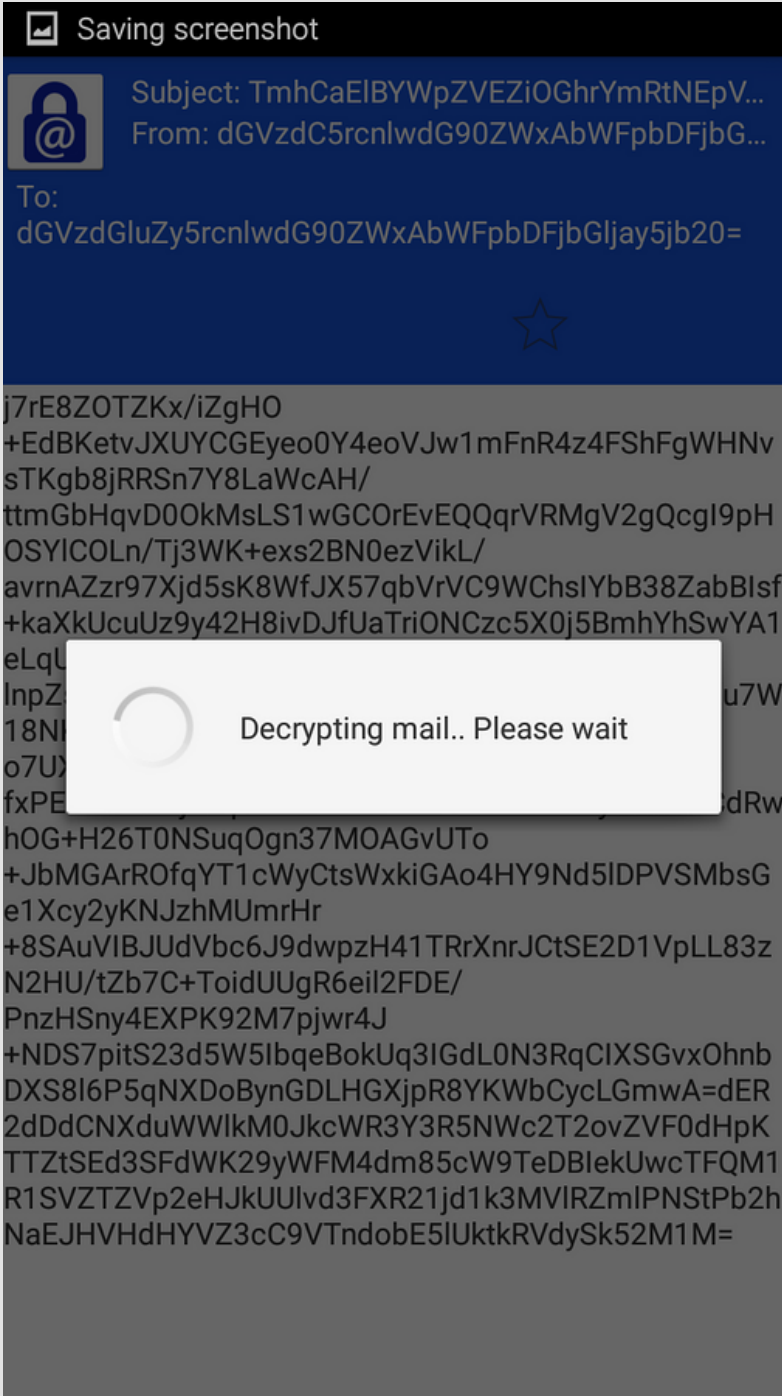
## Encrypting



## Receiving



## Decrypting

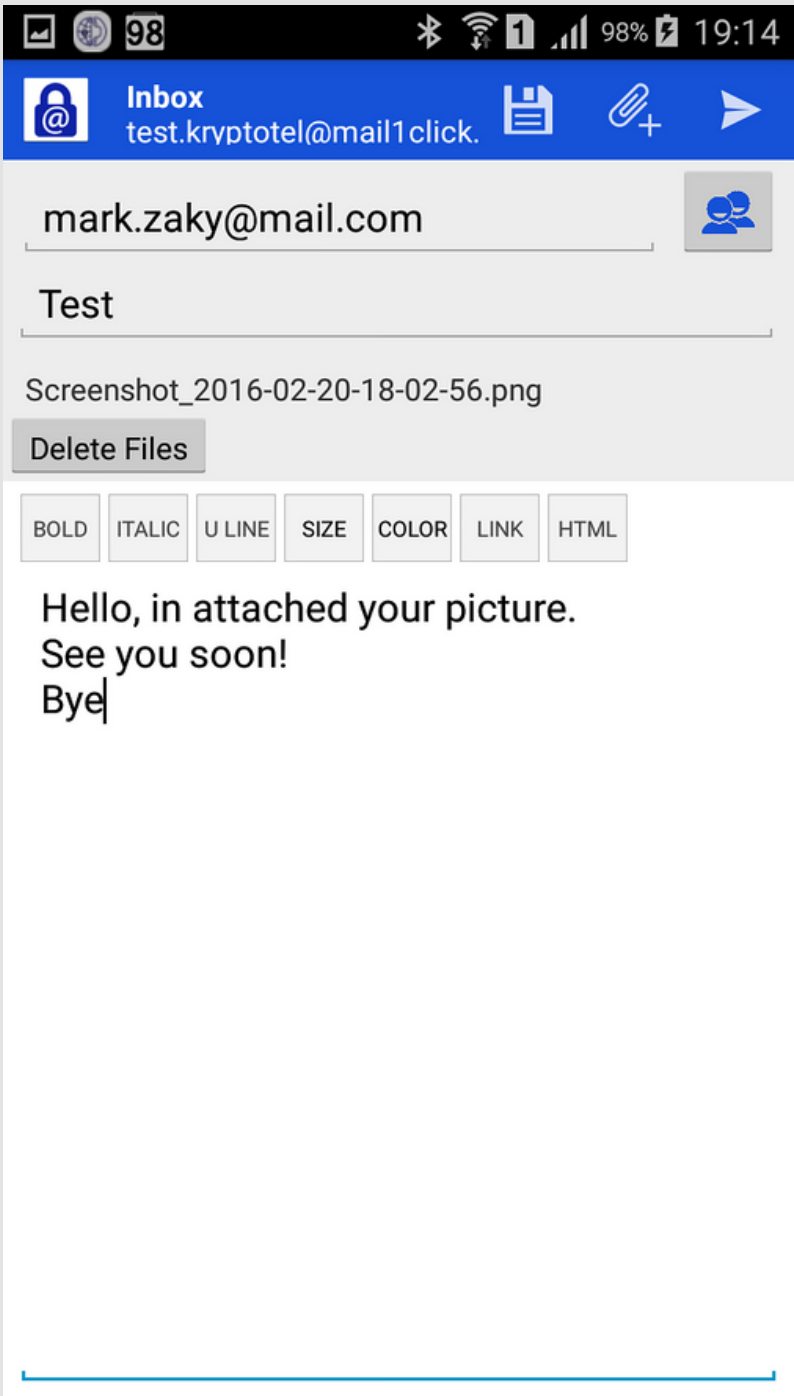




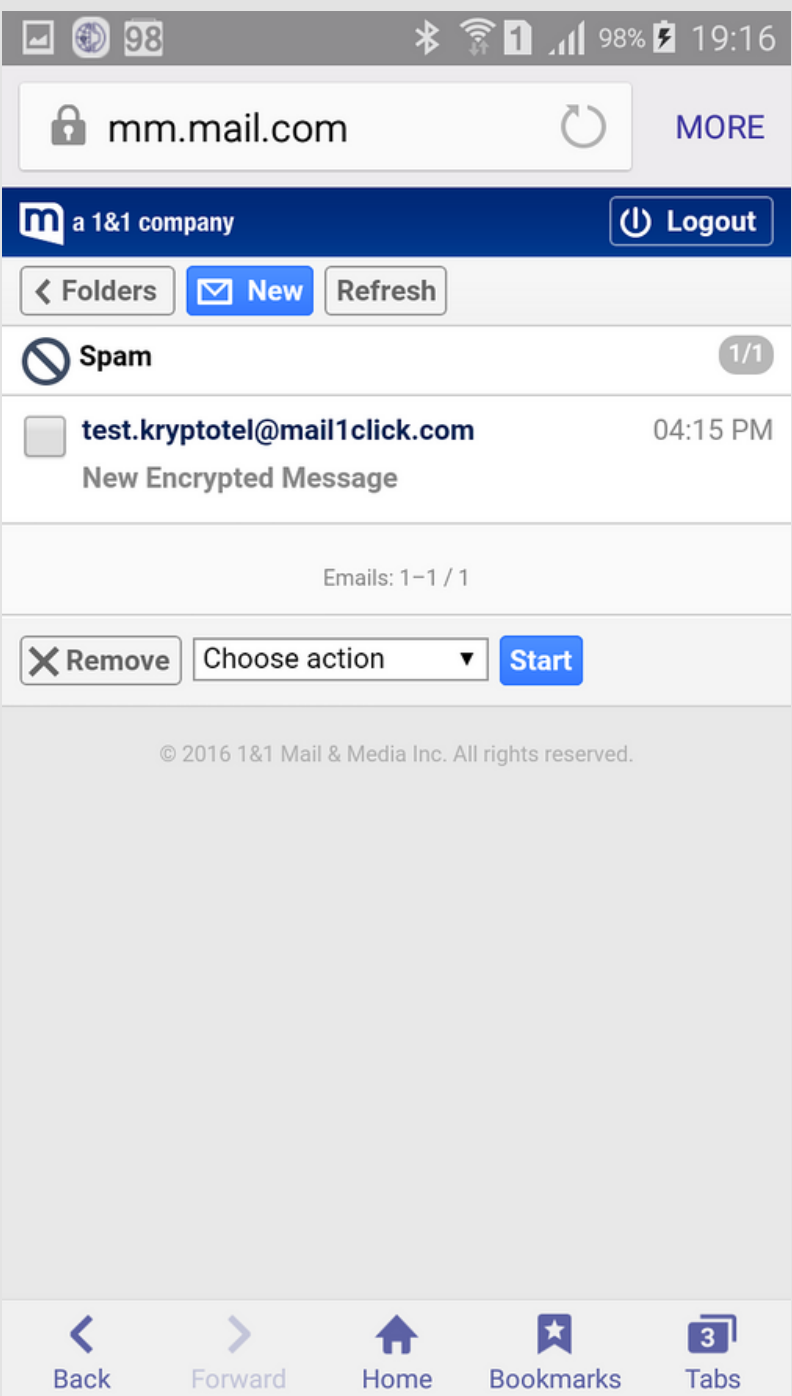
MAIL1CLICK

Send encrypted message and encrypted files-attached to any standard email.

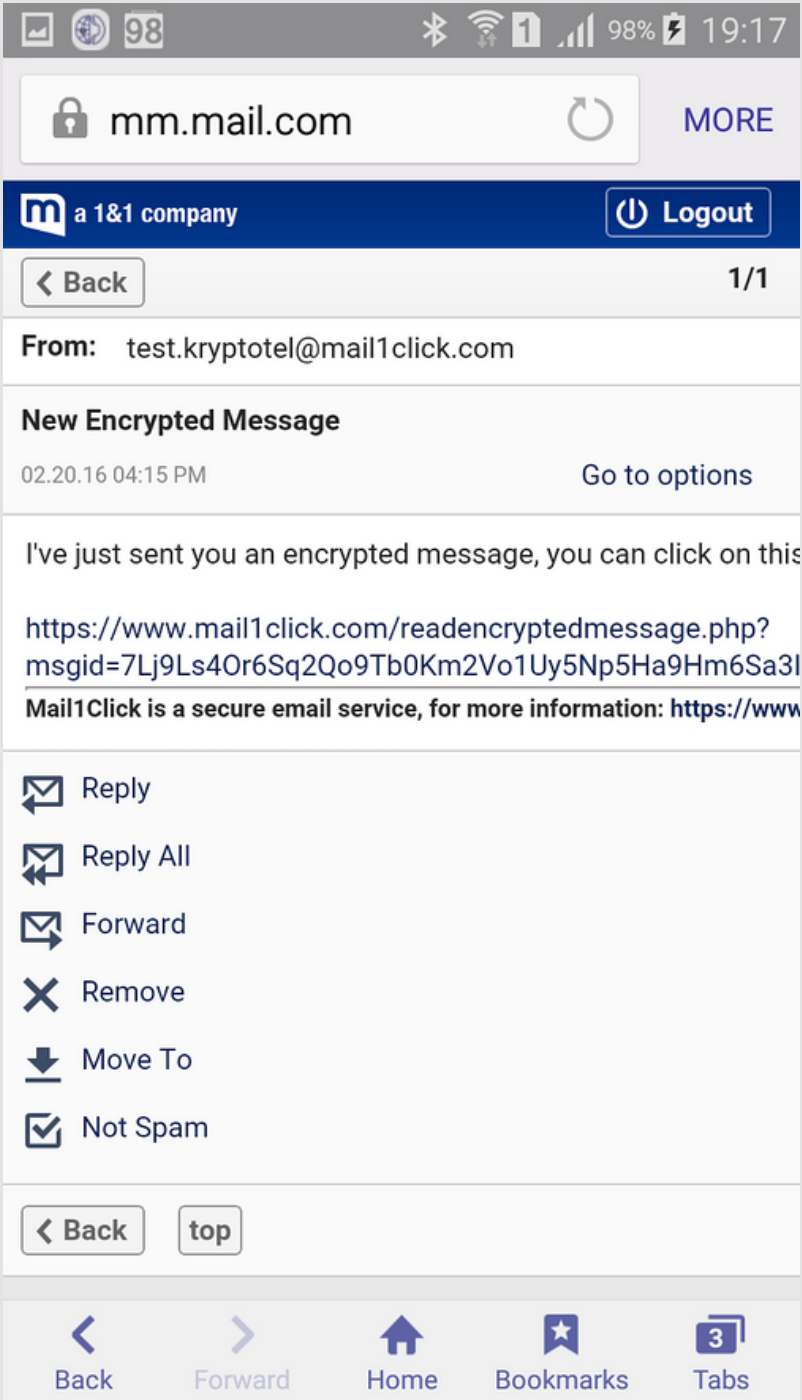
Send standard email



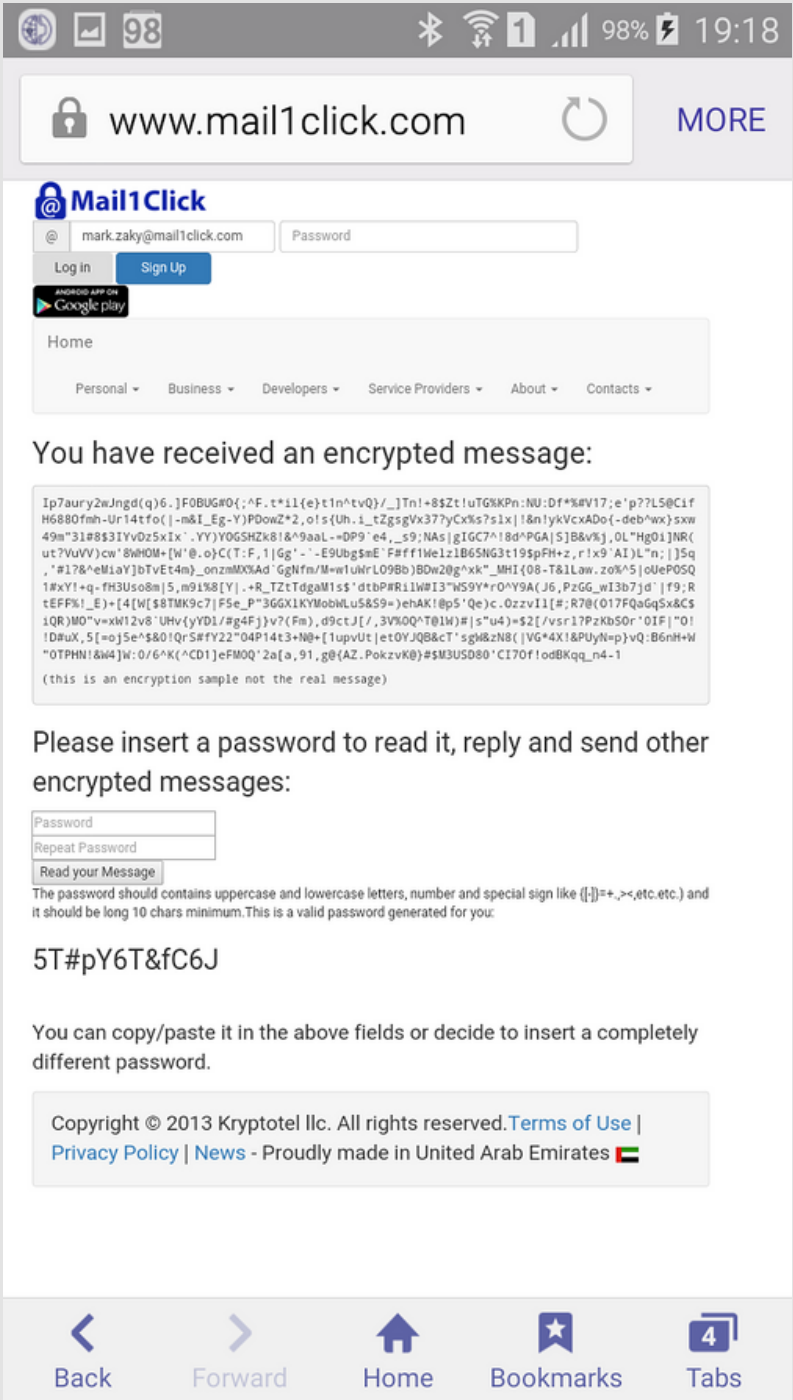
Message Received



Temporary Account Link



Temporary Account Password

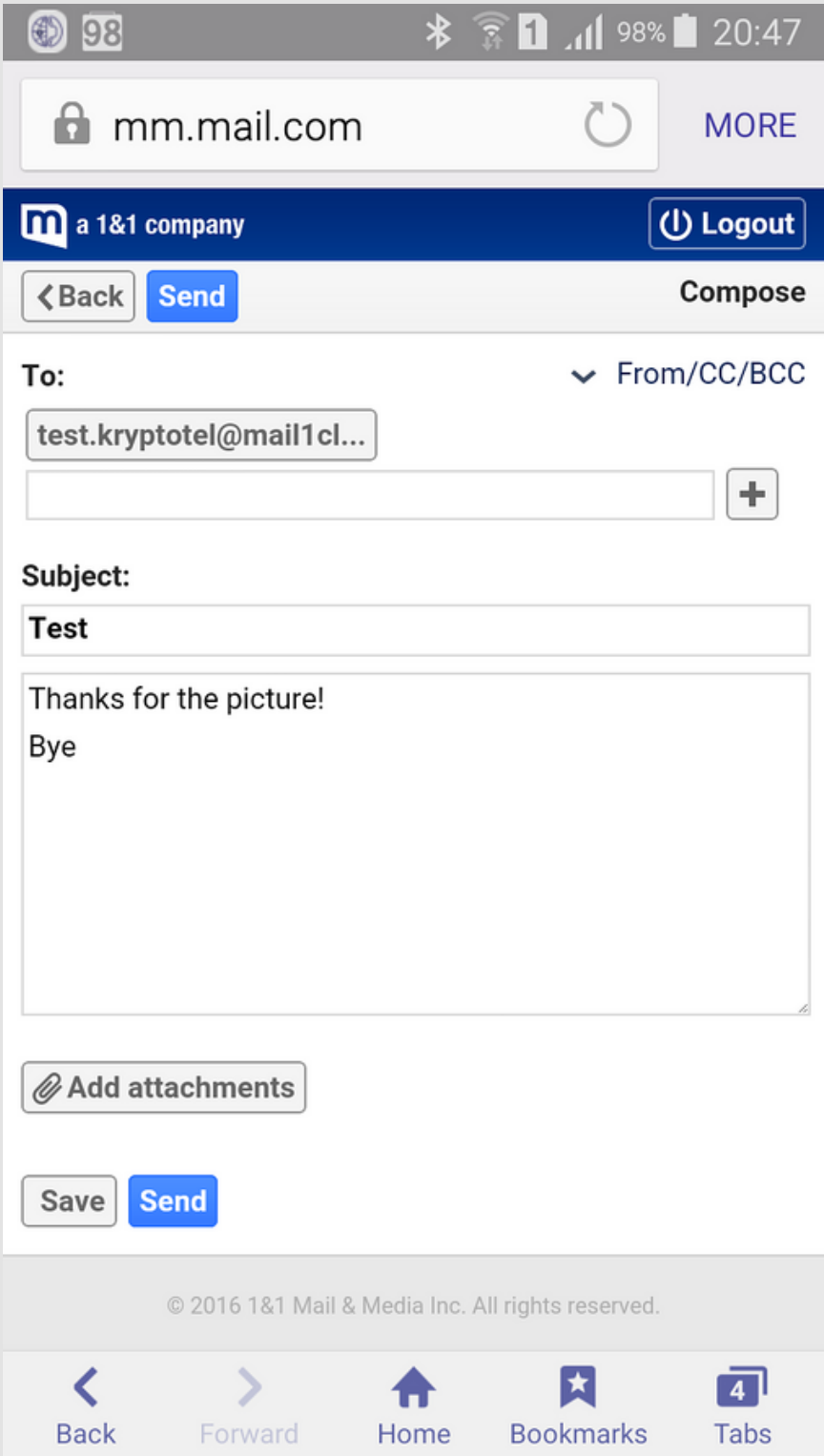




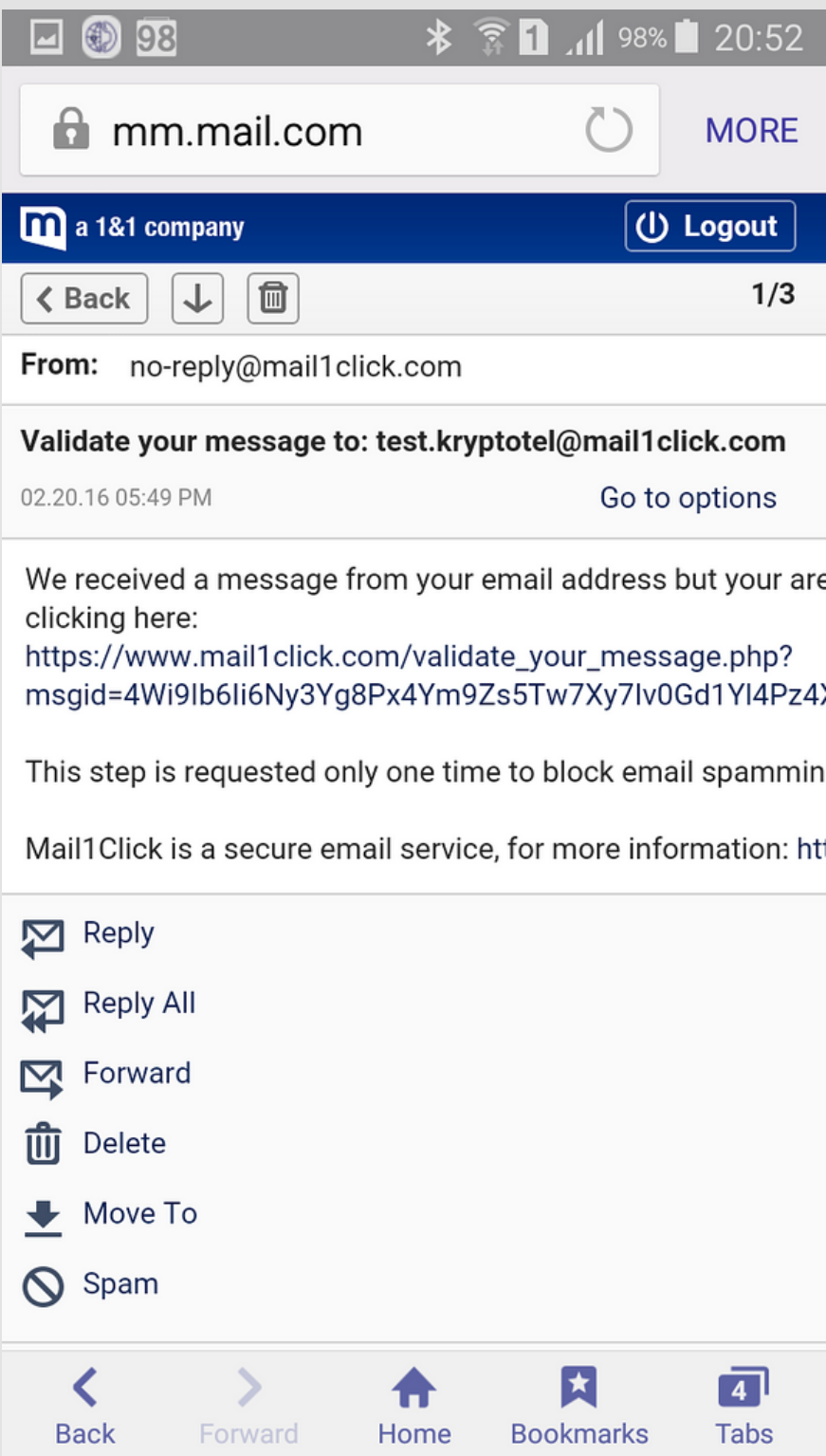
# MAIL1CLICK

Receive standard email from any other email

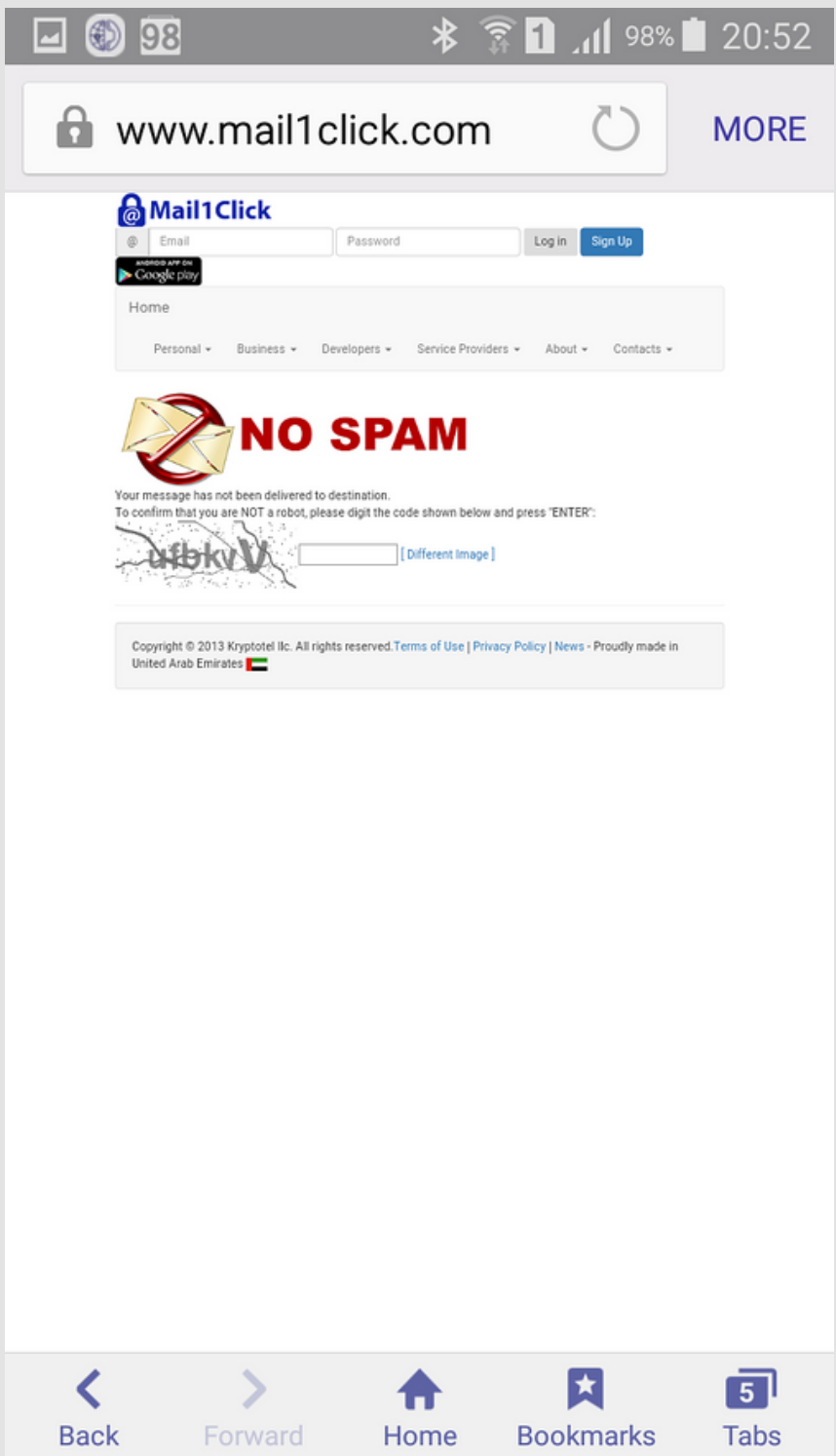
## Send standard email to Mail1Click



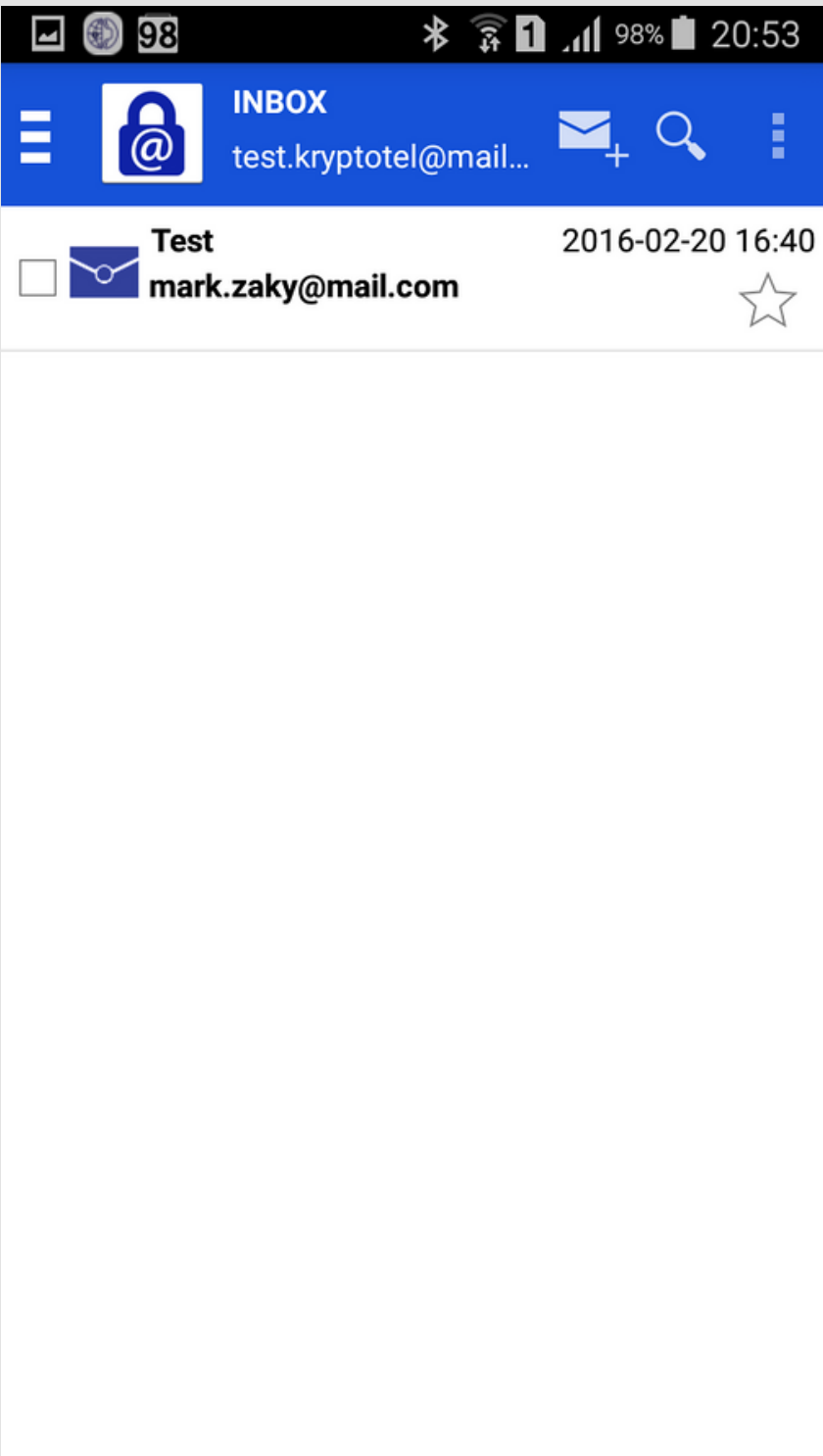
## No Spam link received



## No Spam Verify



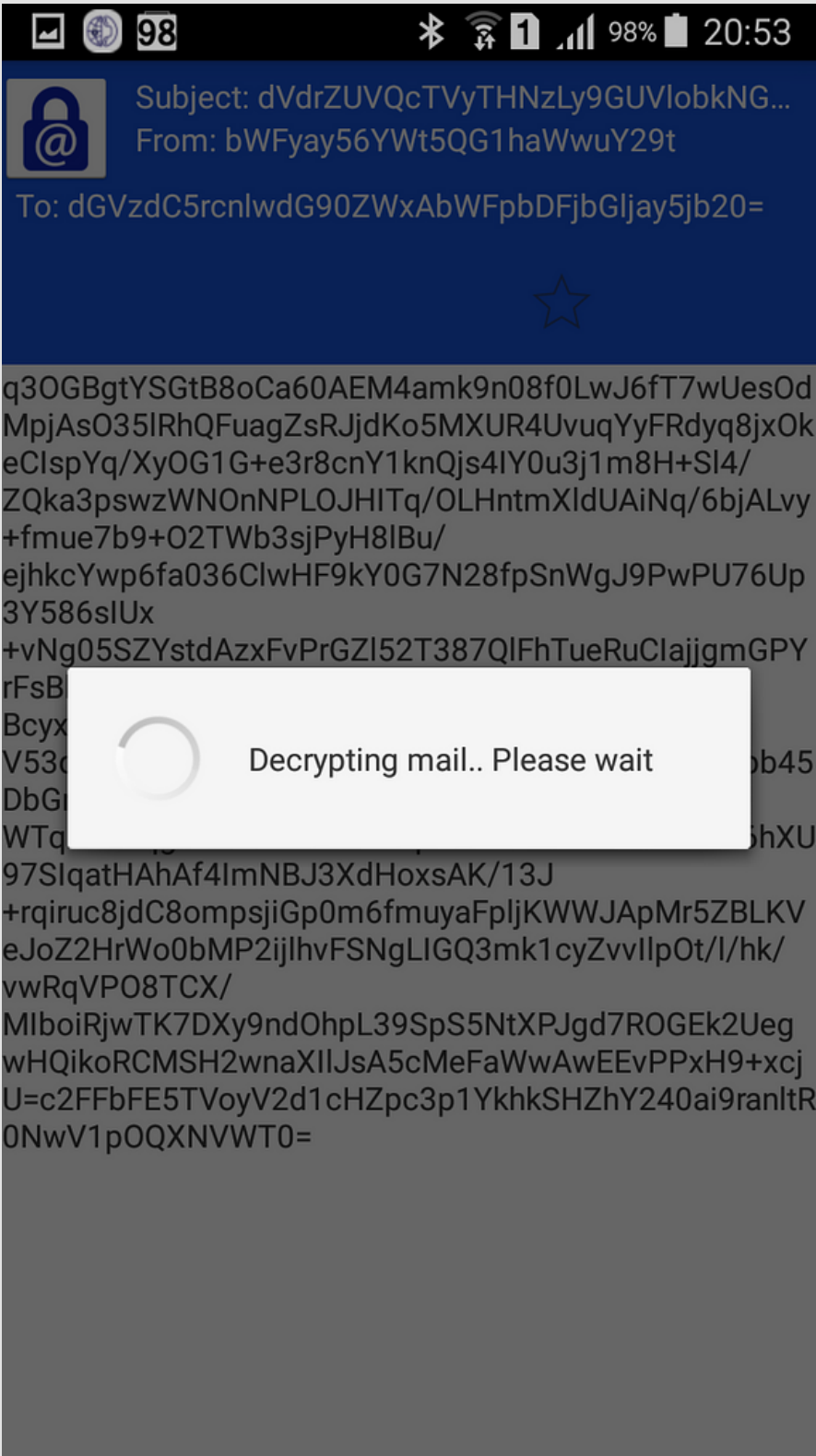
## Standard mail received on Mail1Click



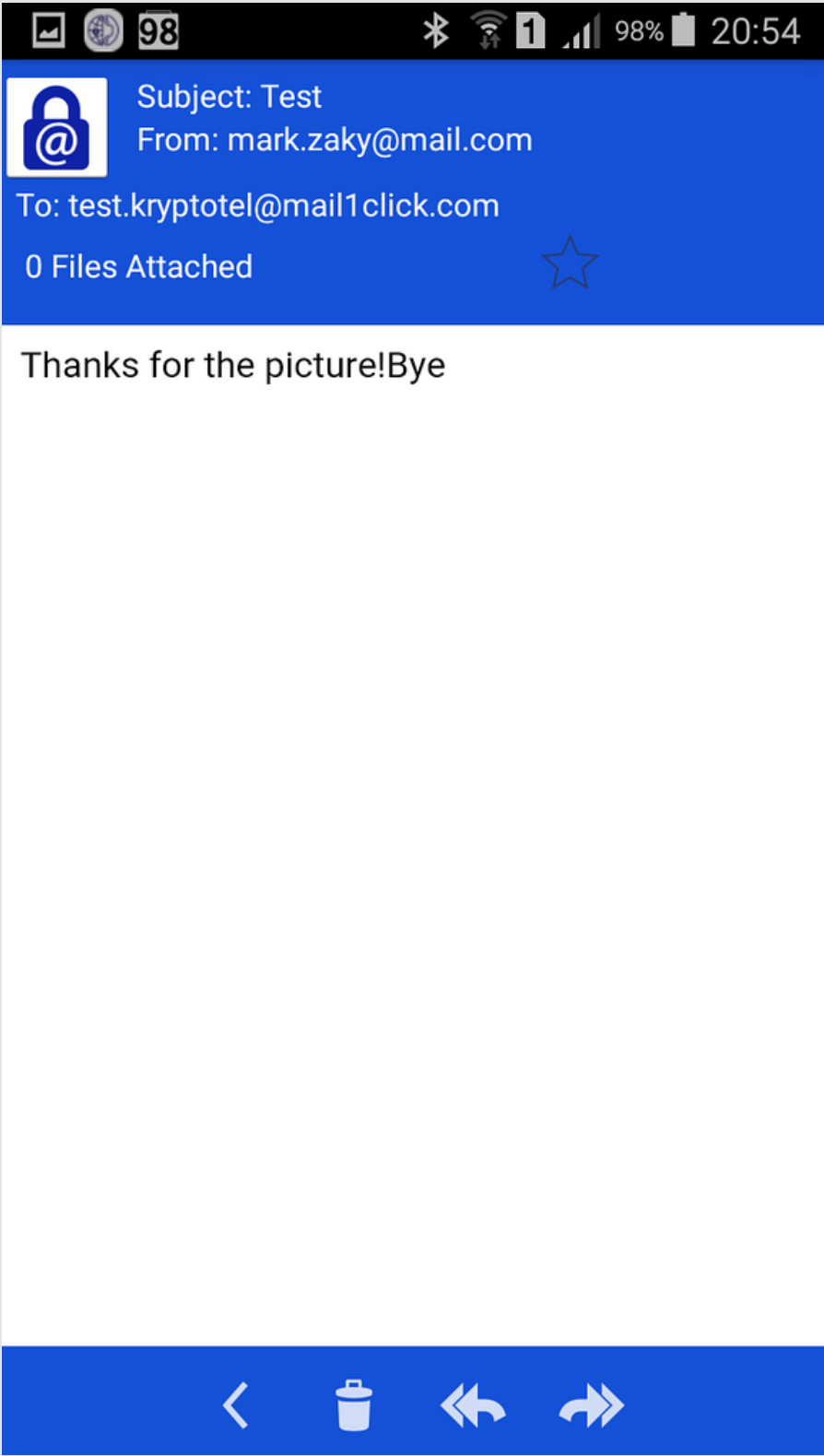


# MAIL1CLICK

## Standard email decryption



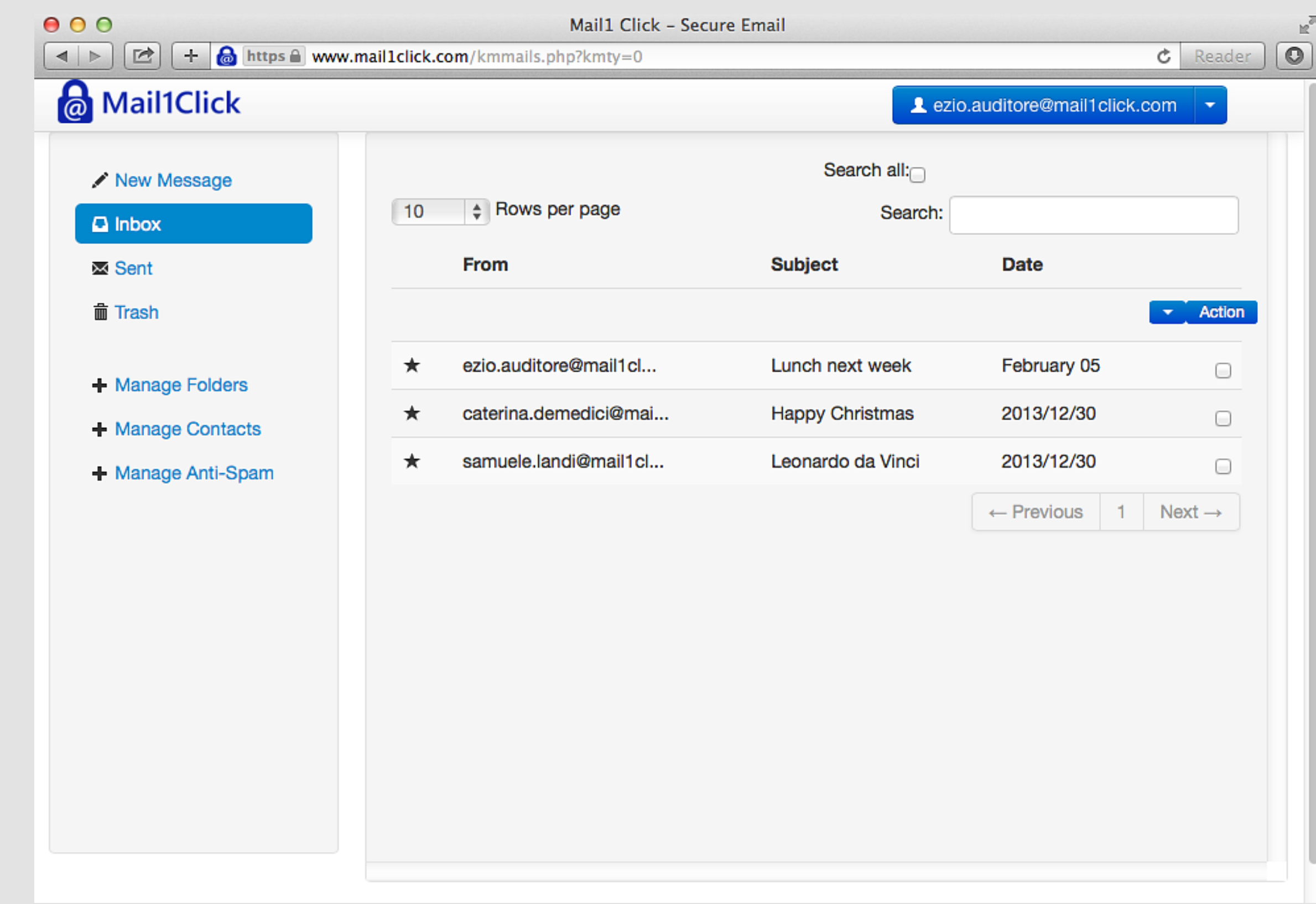
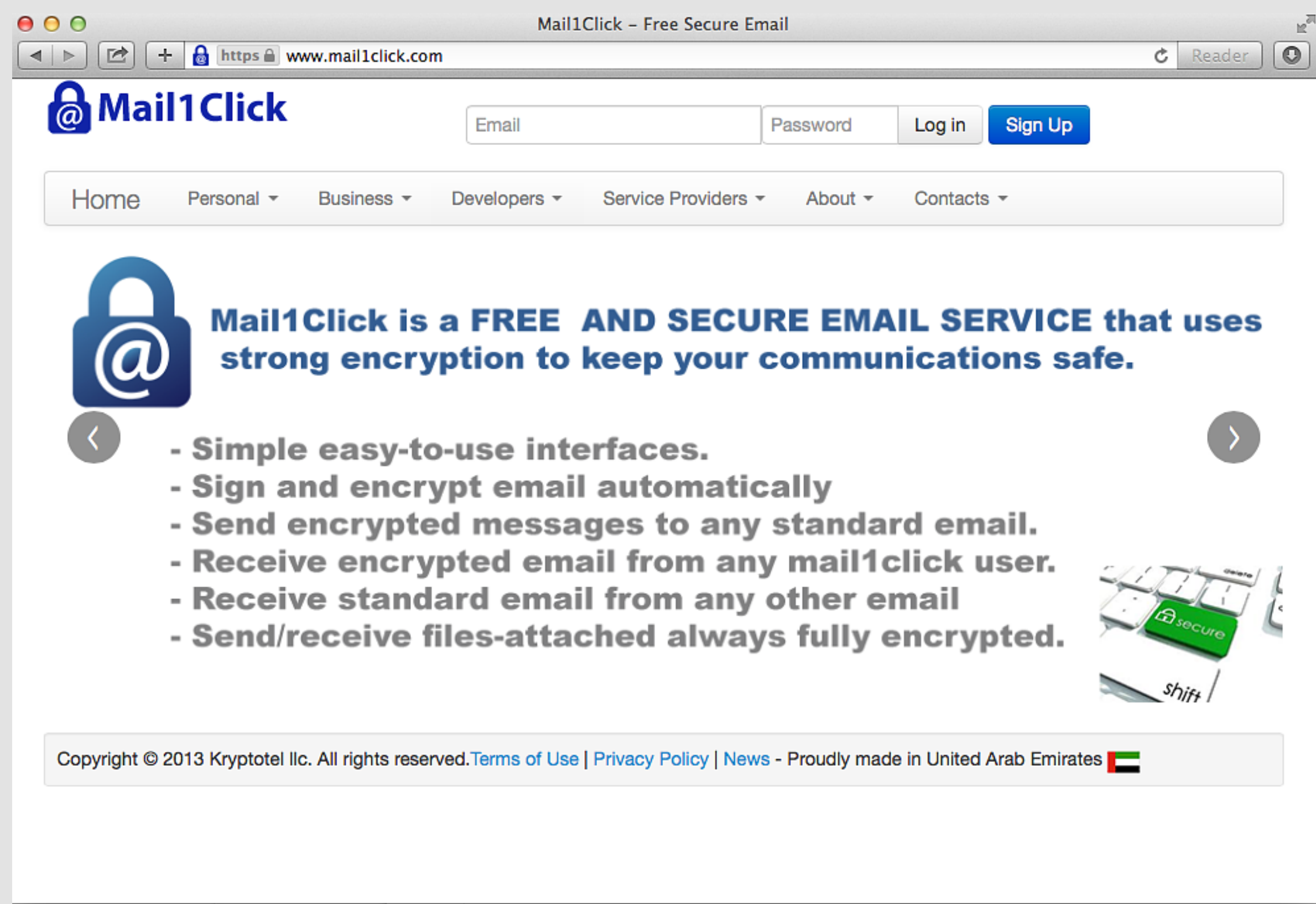
## Standard email opened





# MAIL1CLICK

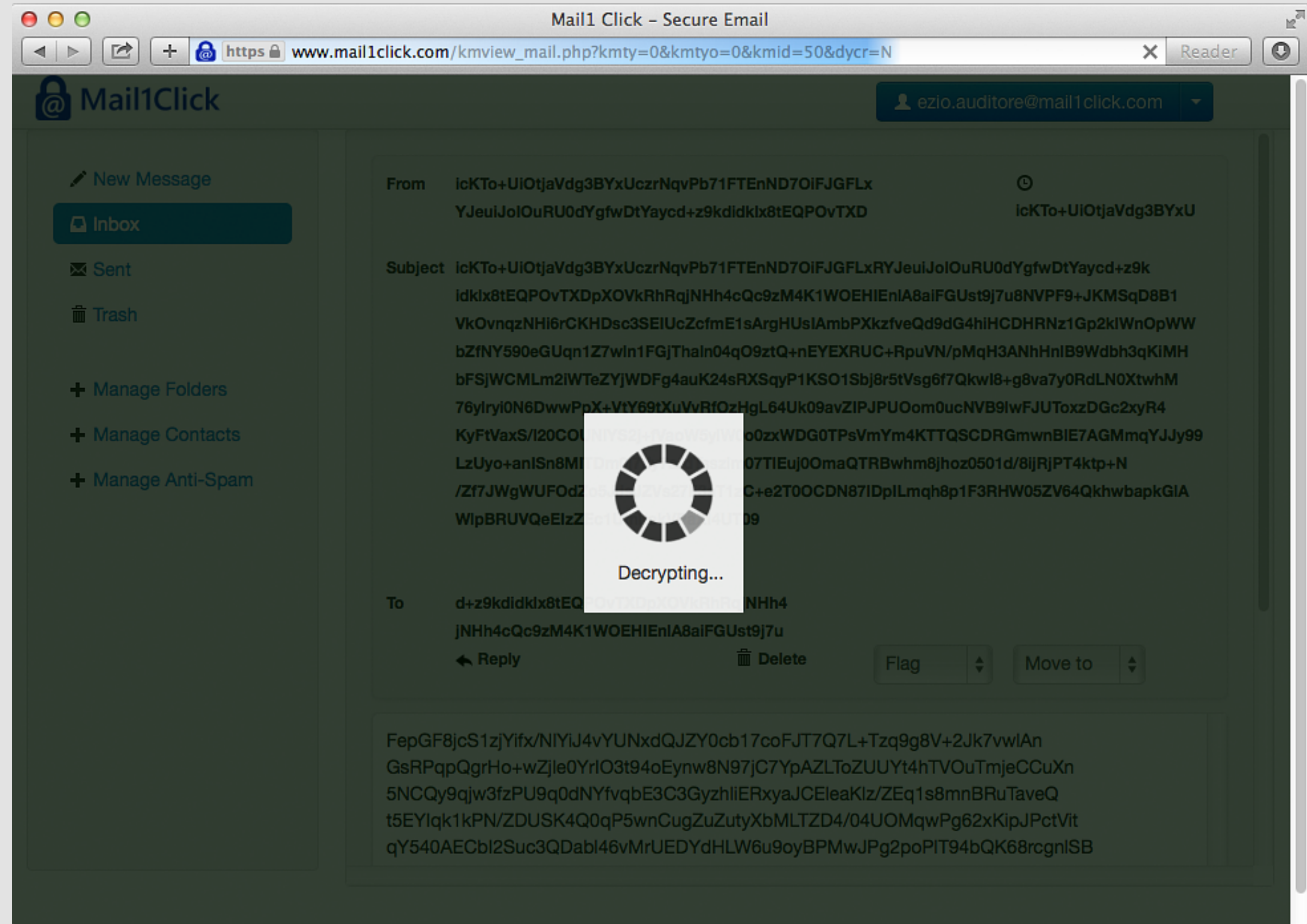
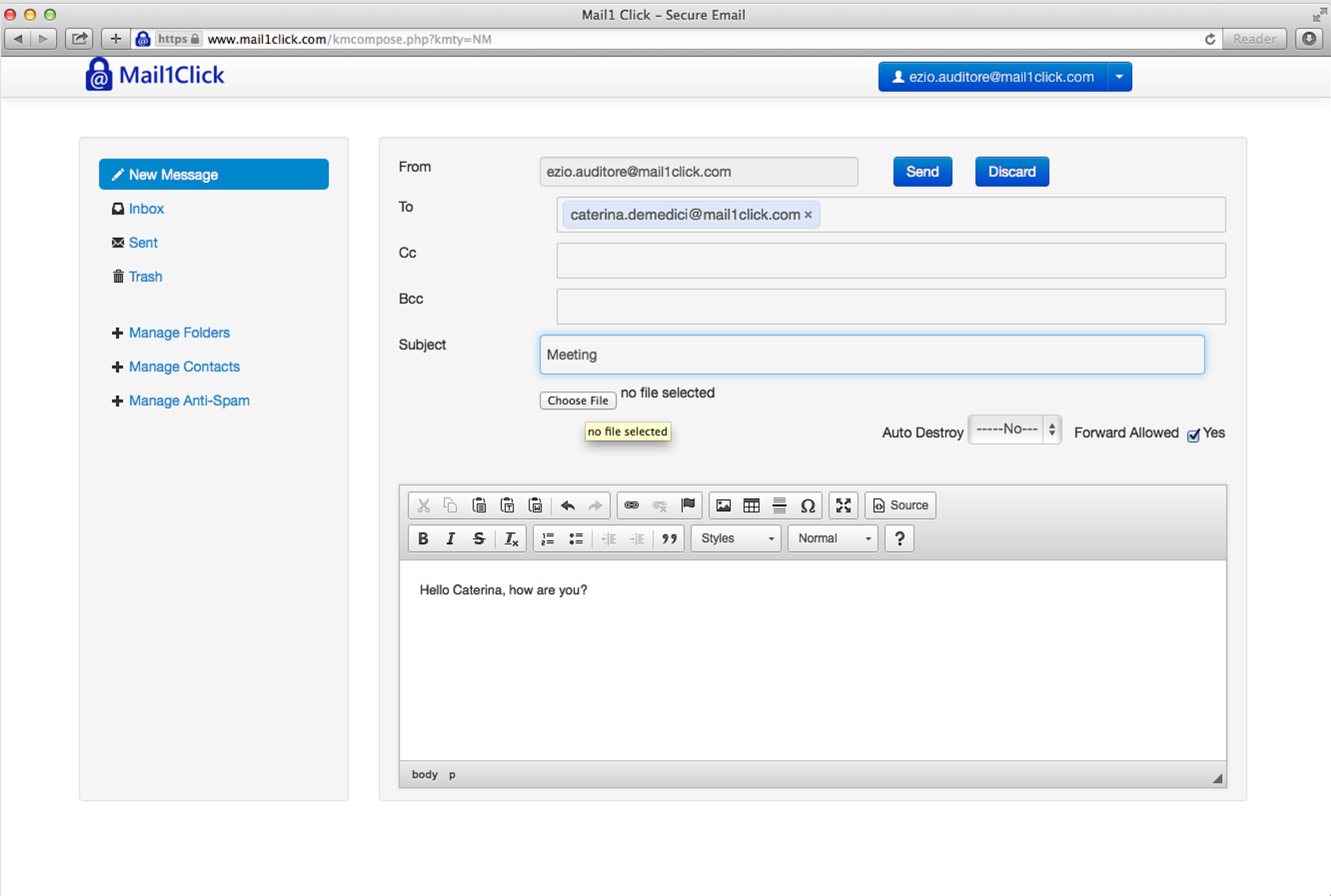
Some screenshots from Mail1Click web interface:





# MAIL1CLICK

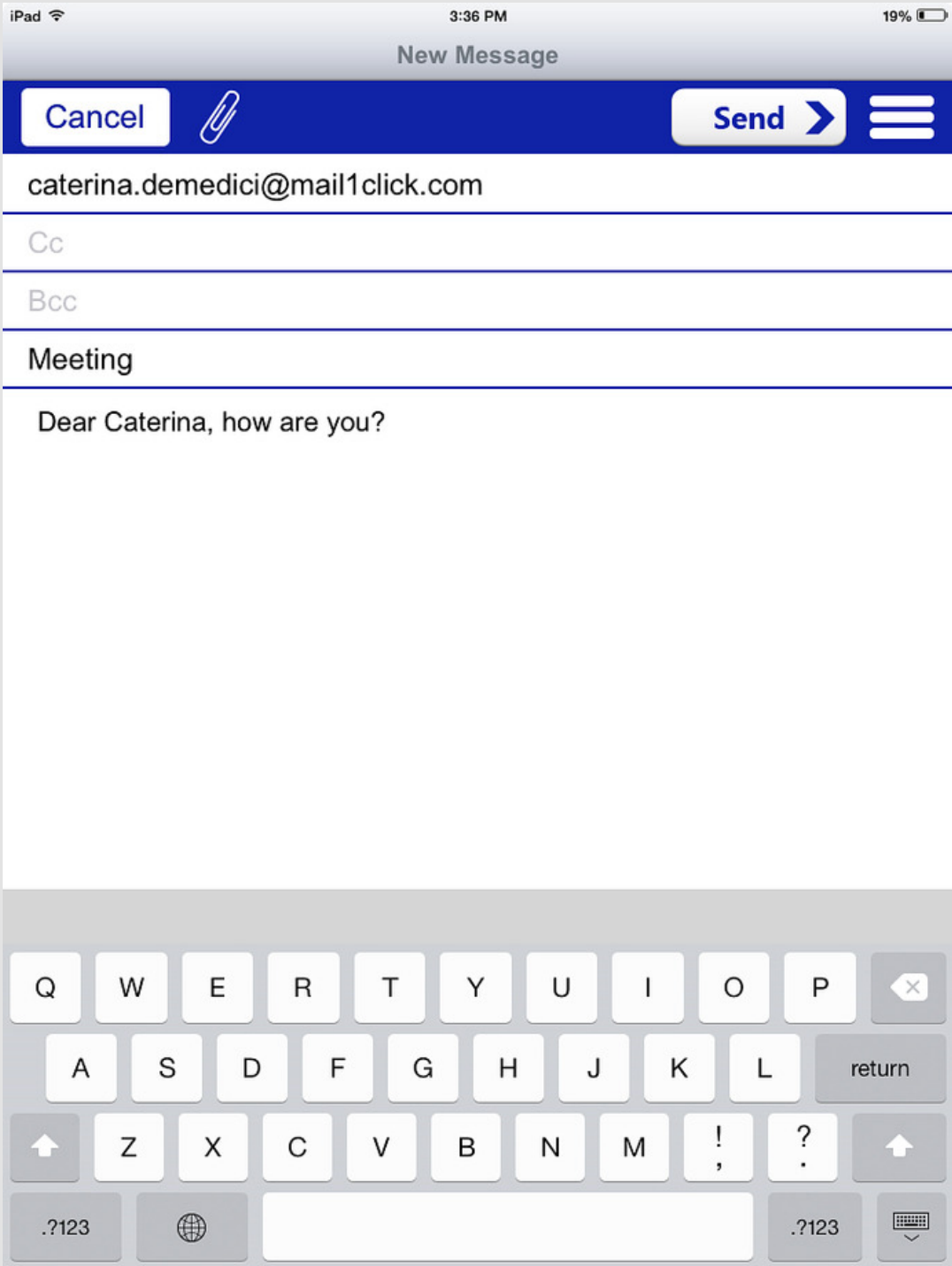
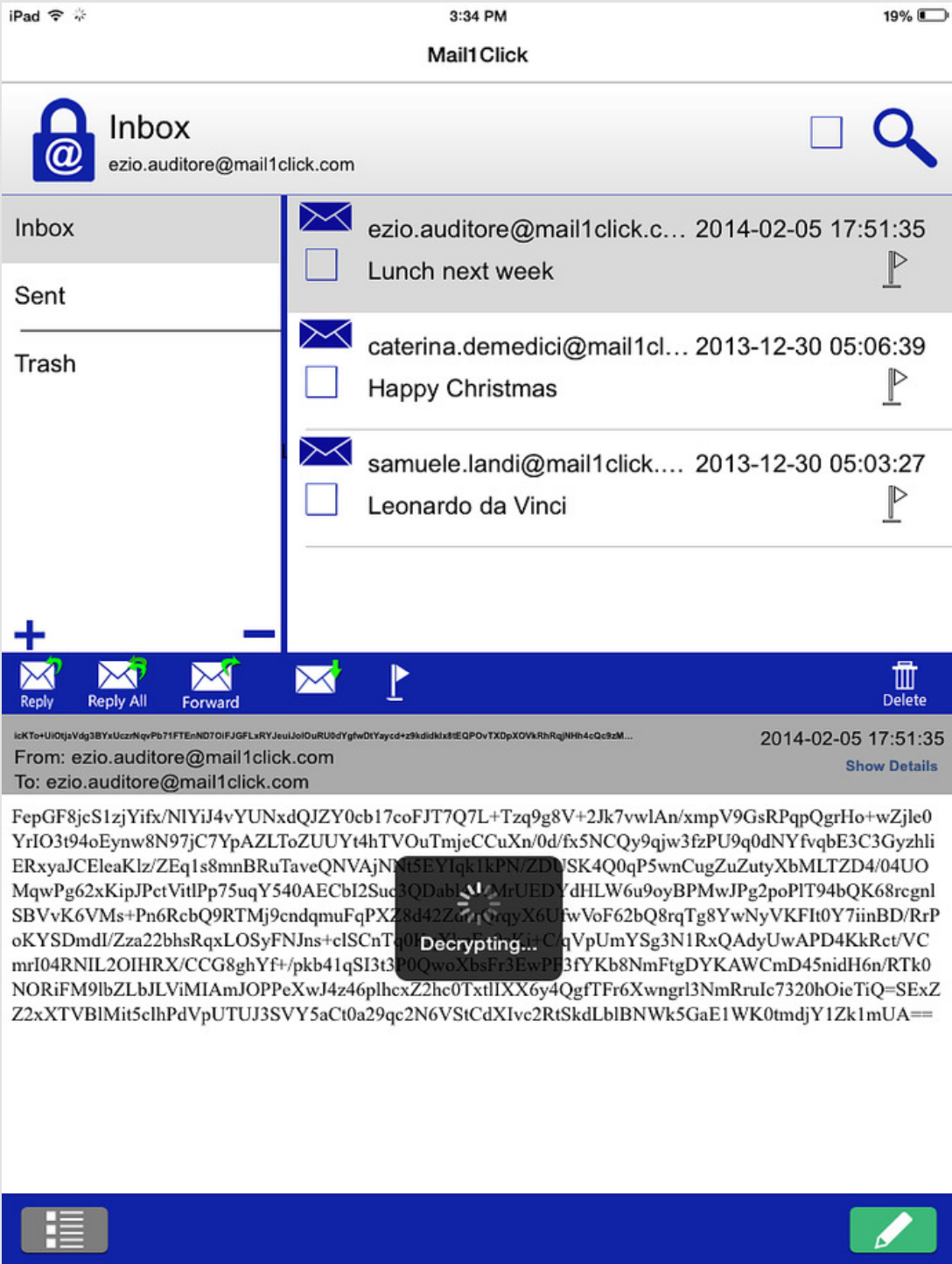
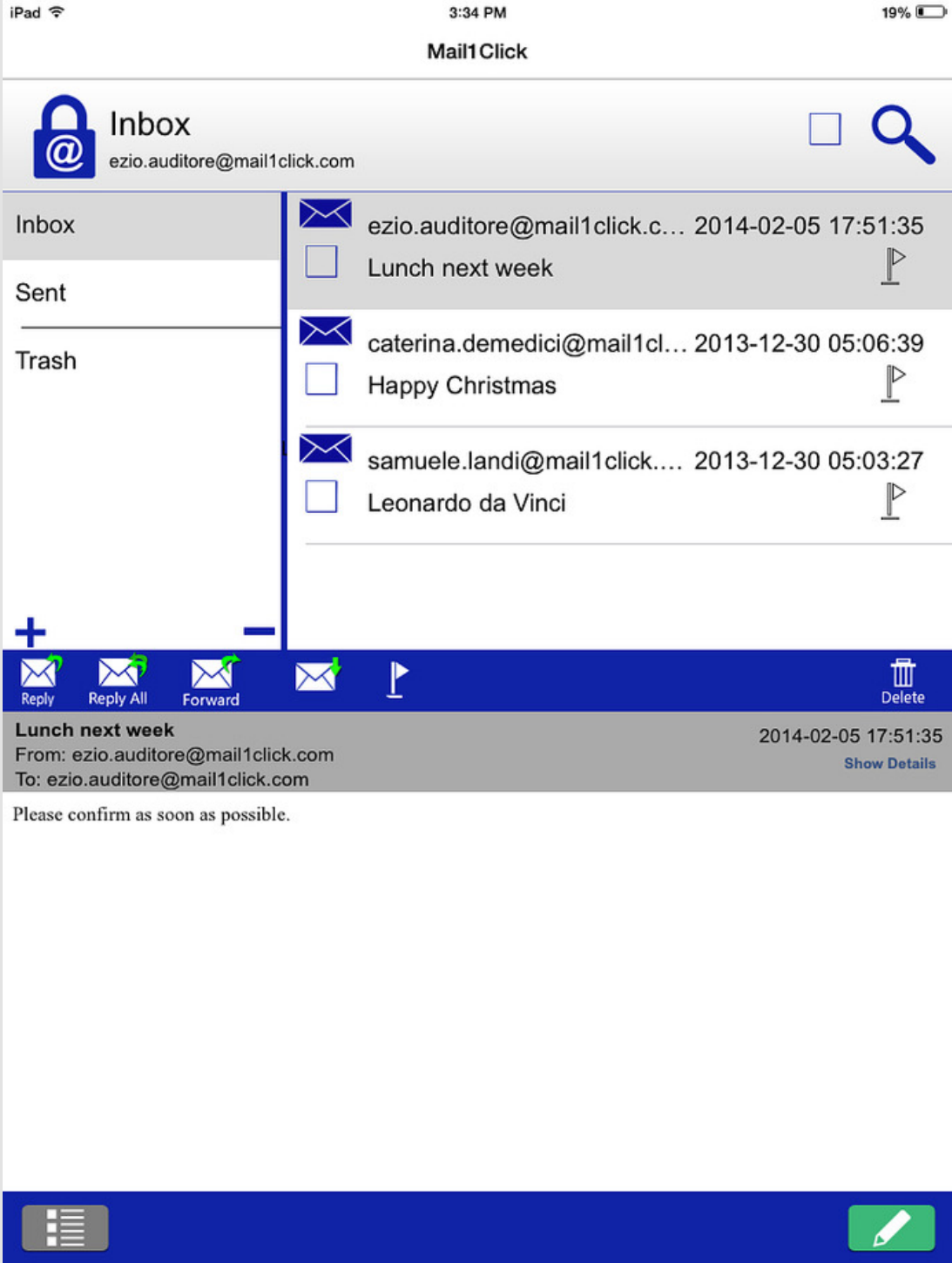
Some screenshots from Mail1Click web interface:





# MAIL1CLICK

## Screenshots of Mail1Click on iPad:





VPN ONE CLICK



Kryptotel



# VPN ONE CLICK

Kryptotel can create a custom VPN solution tailored to your requirements based on the algorithm of your choice.

Our VPN Client is compatible and available on iOS, Android, Mac OSX, Linux, Windows, Windows Mobile, etc.

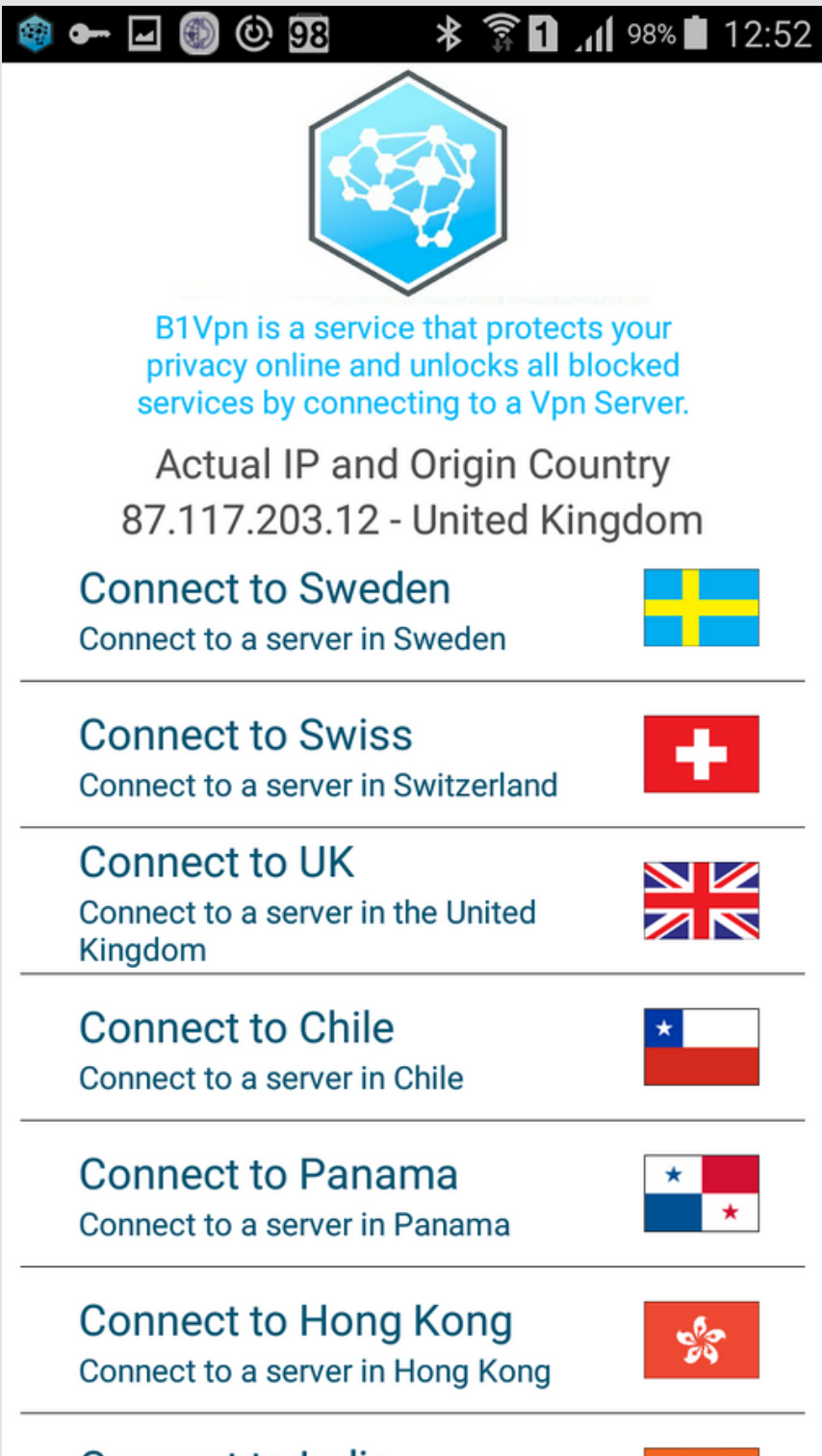
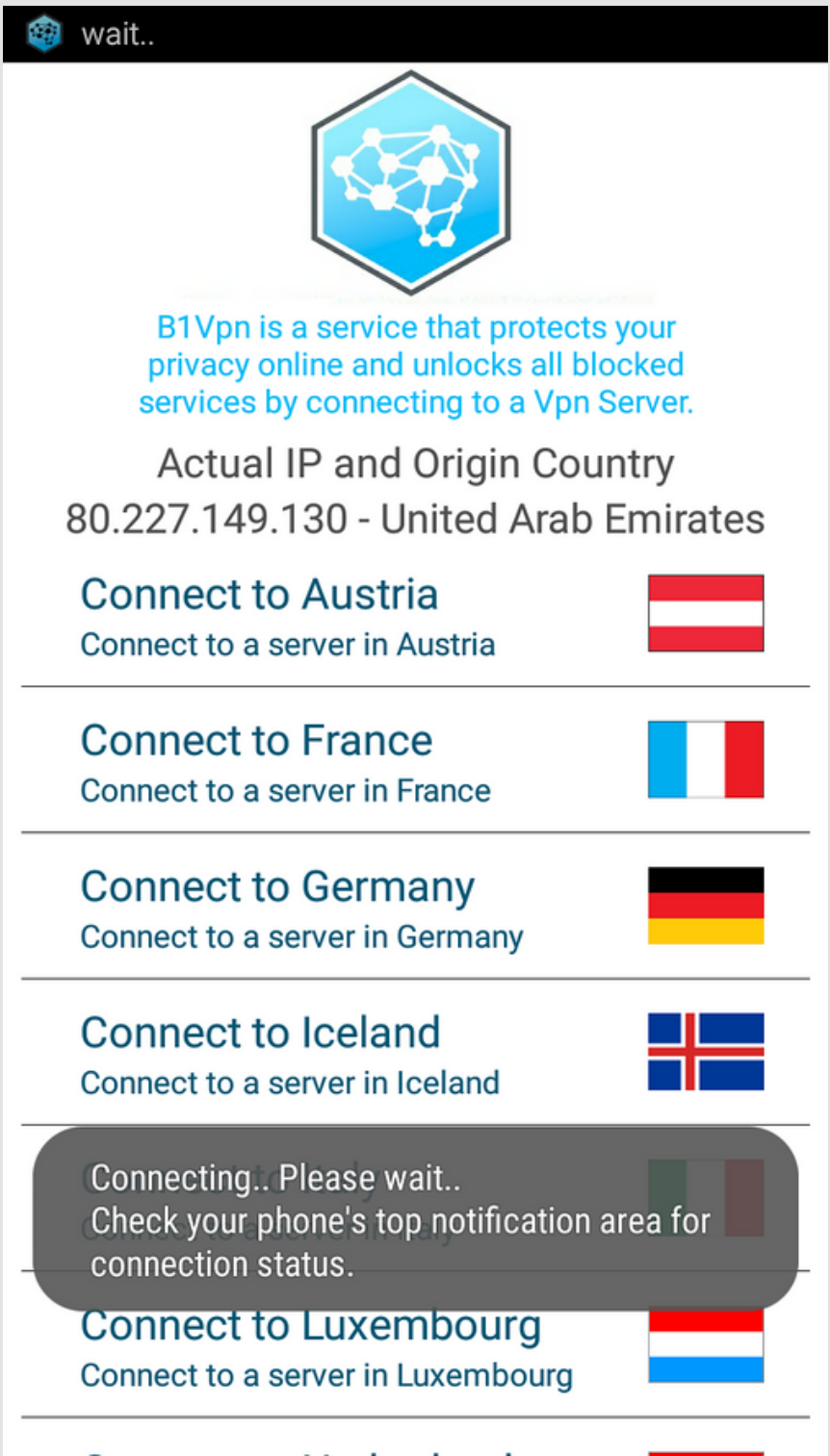
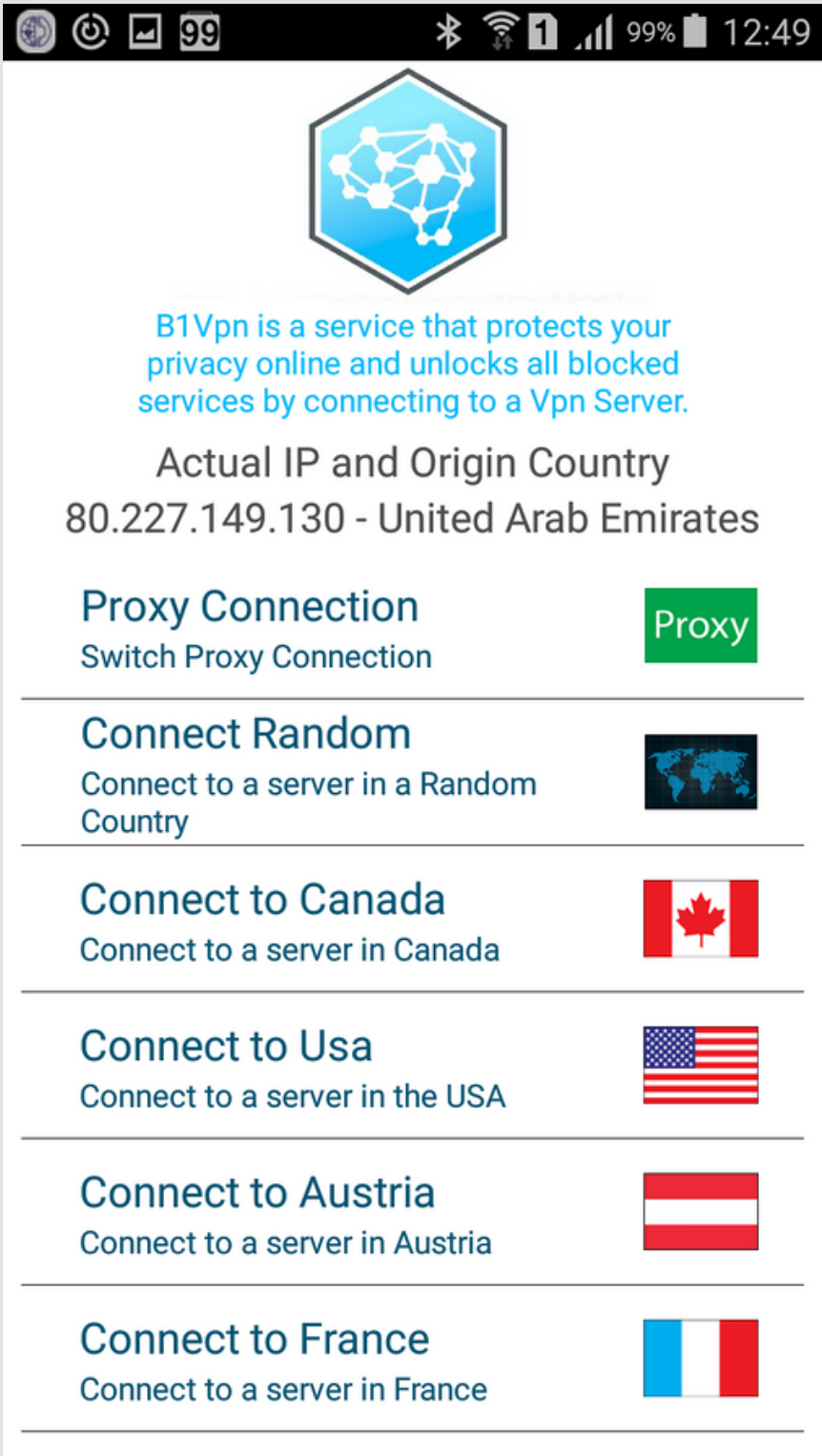
We also have a VPN Client Router based on Linux board (WiFi and up to 4 ethernet wired ports).

Based on your security and privacy concerns, we can have Linux based servers located at your premise or at any location of your choice. We will apply encryption to the communication channel, device and server storage as well. Thereby, maximizing the security level for you. We are also open to releasing the source code for security review which makes you aware of each bit of the code used.



# VPN ONE CLICK

VPN One Click is easy to use and takes just a single click to connect.



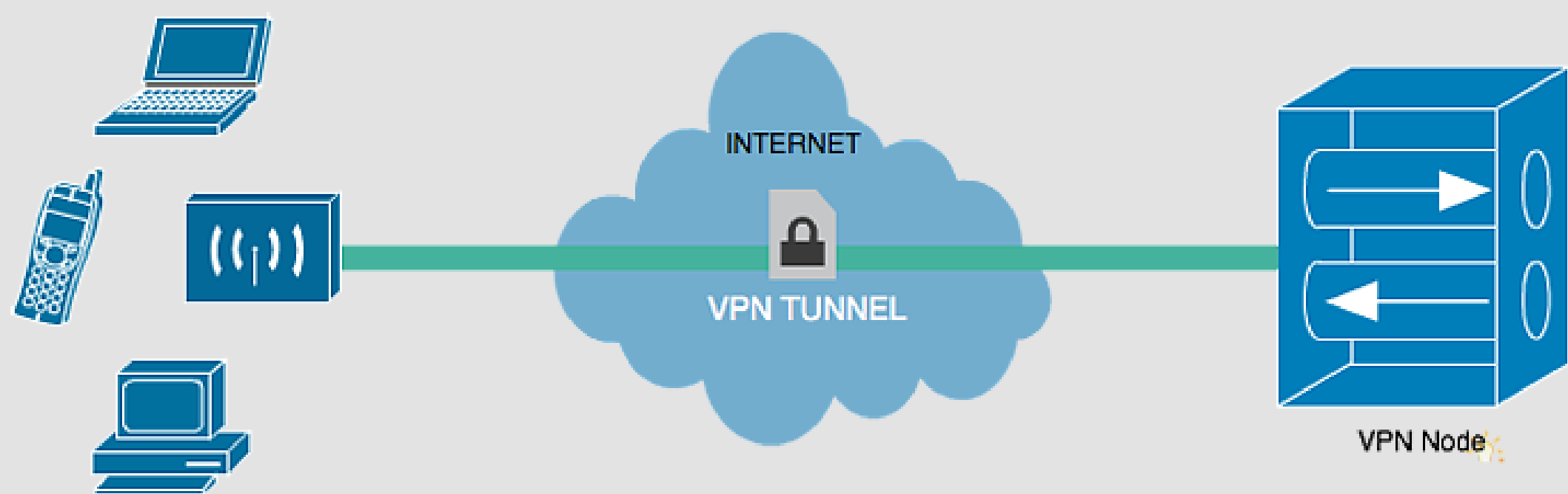


# VPN ONE CLICK

VPN One Click keeps your connection and communication safe and secure. It creates a VPN tunnel and all your communication is passed via this tunnel which keeps the data absolutely safe and secure.



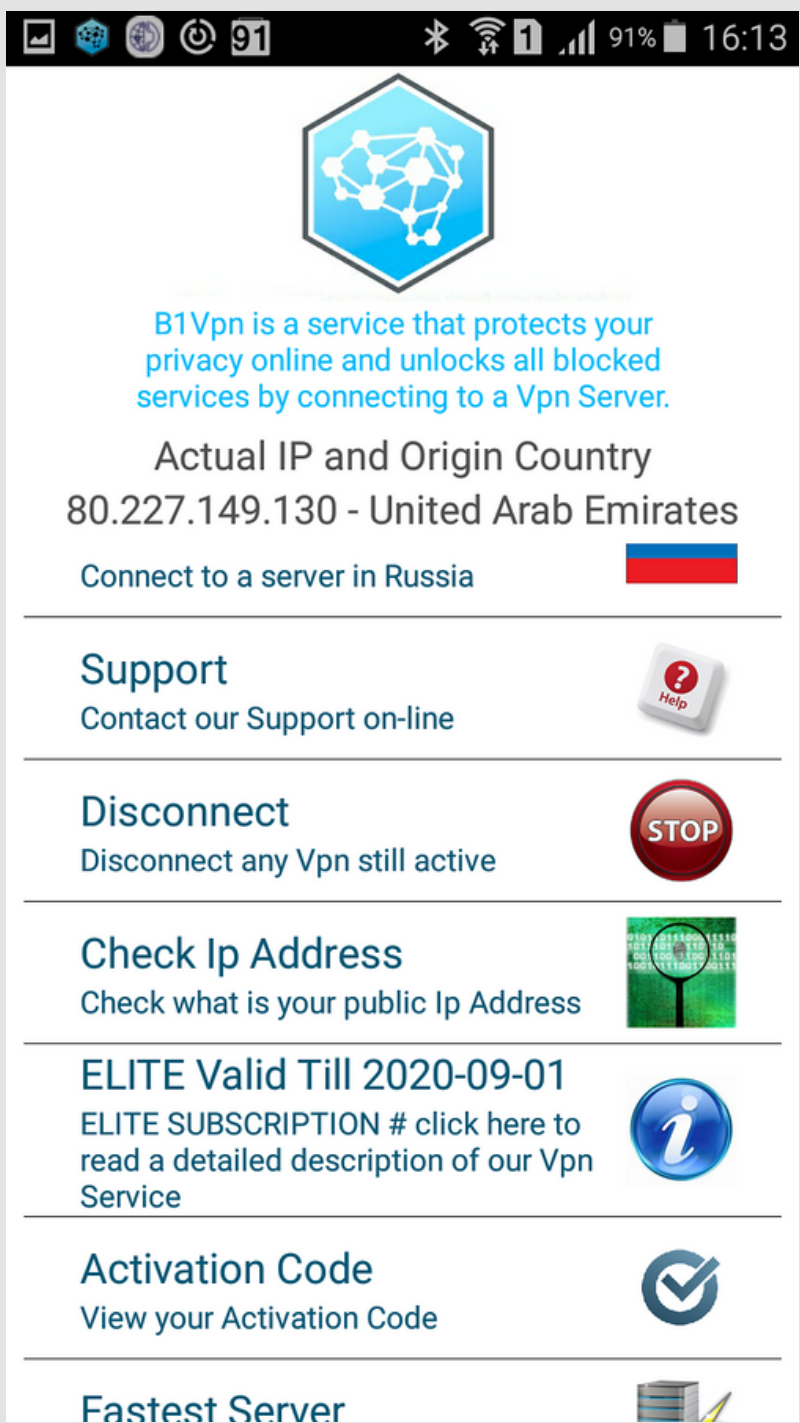
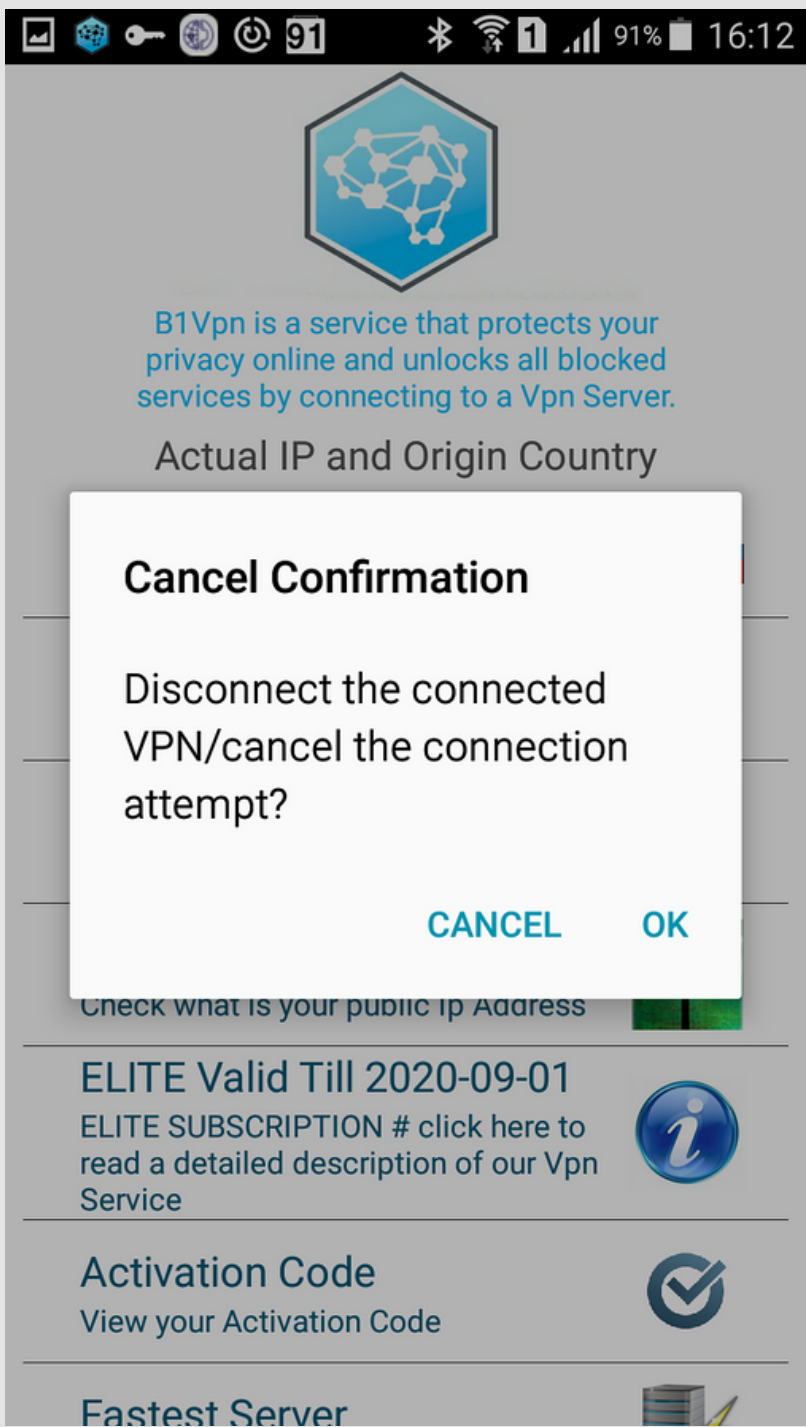
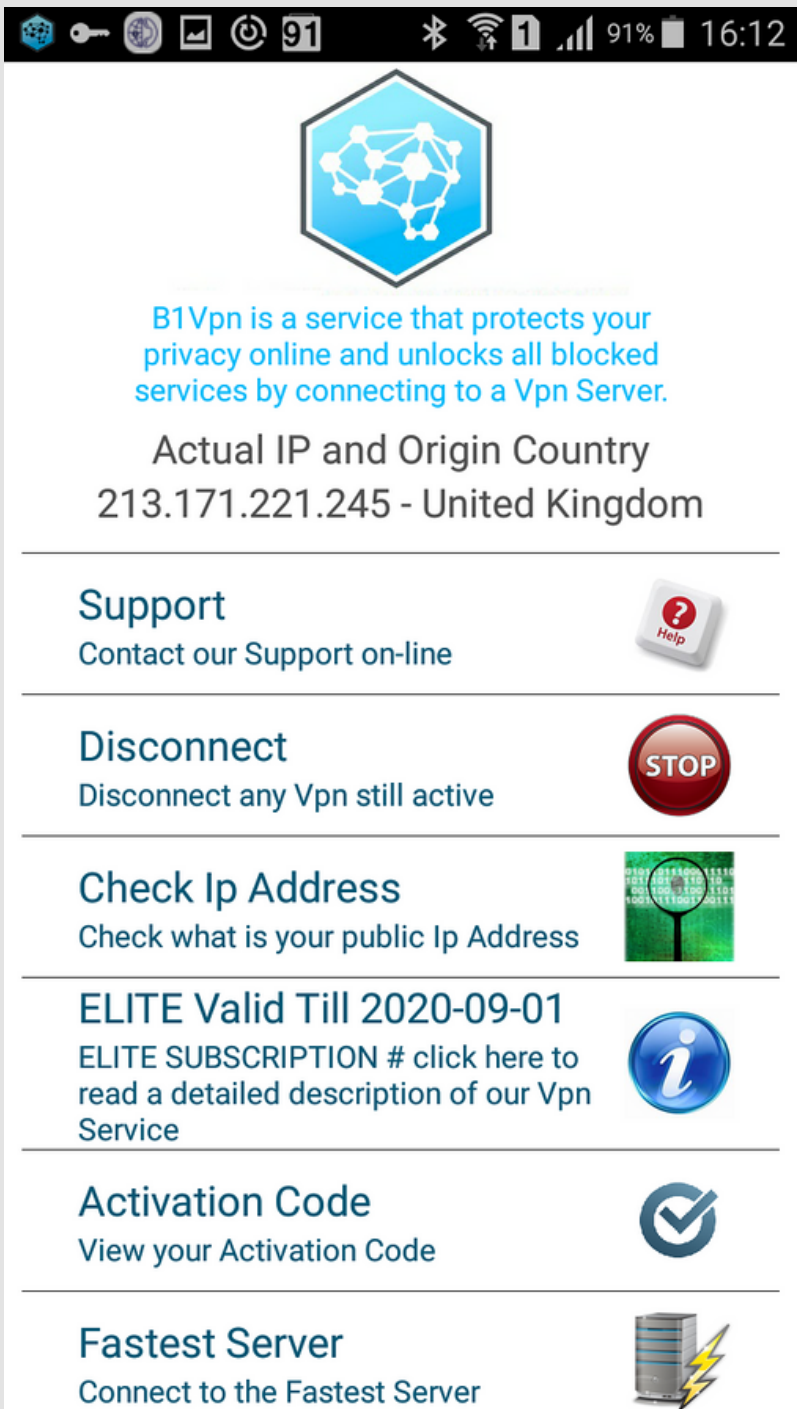
Stay Safe





# VPN ONE CLICK

Users can connect and disconnect to VPN One Click with just a single click.





## VPN ONE CLICK

### VPN ONE CLICK OPENVPN PROTOCOL

- OpenVPN is an open-source software application that implements Virtual Private Network (VPN) techniques for creating secure point-to-point or site-to-site connections
- OpenVPN allows peers to authenticate each other using a pre-shared secret key, certificates, or username/password
- OpenVPN uses the OpenSSL encryption library extensively, as well as the TLS protocol (former SSL), and contains many security and control features
- OpenVPN has been ported and embedded to several systems

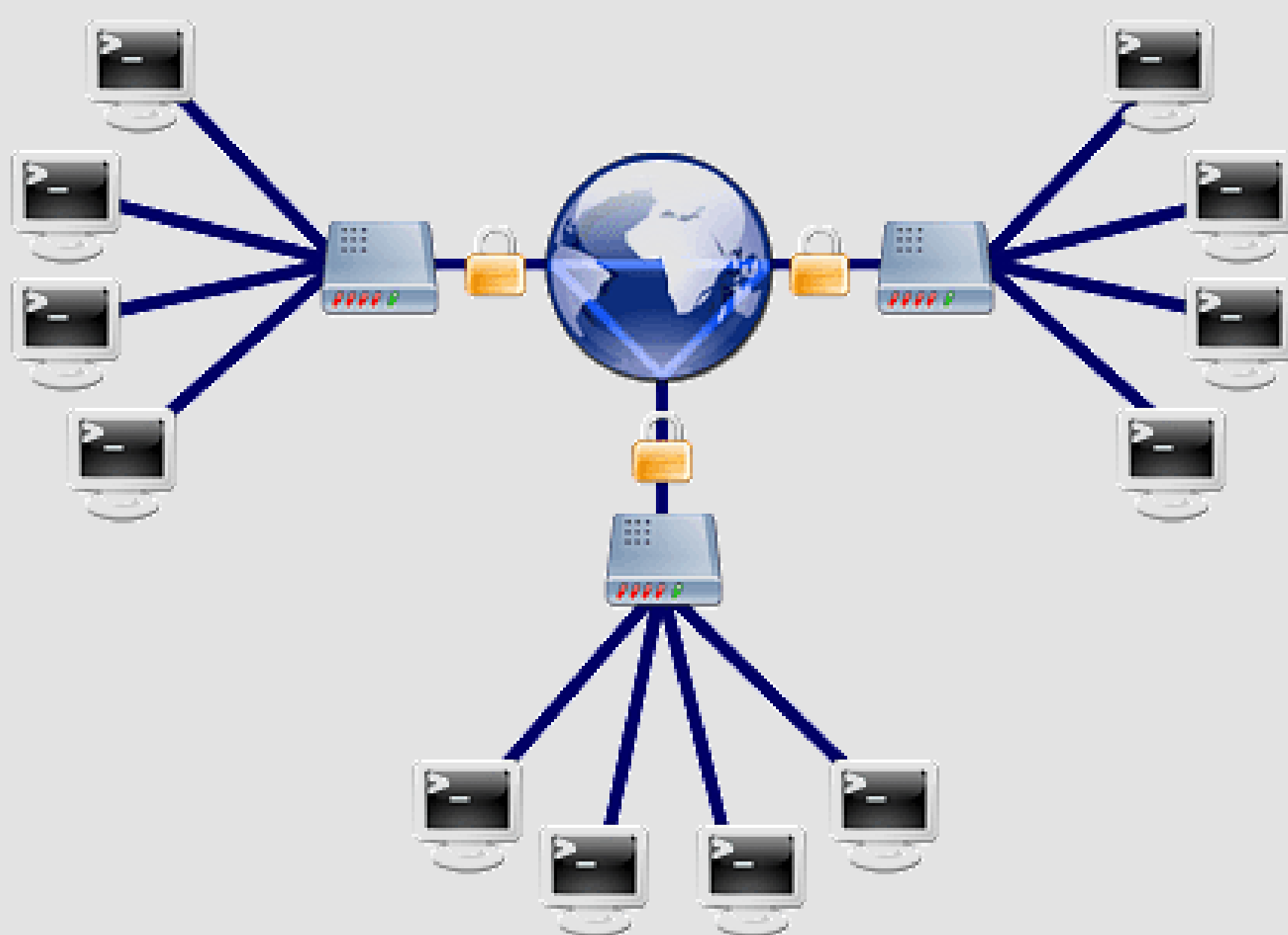




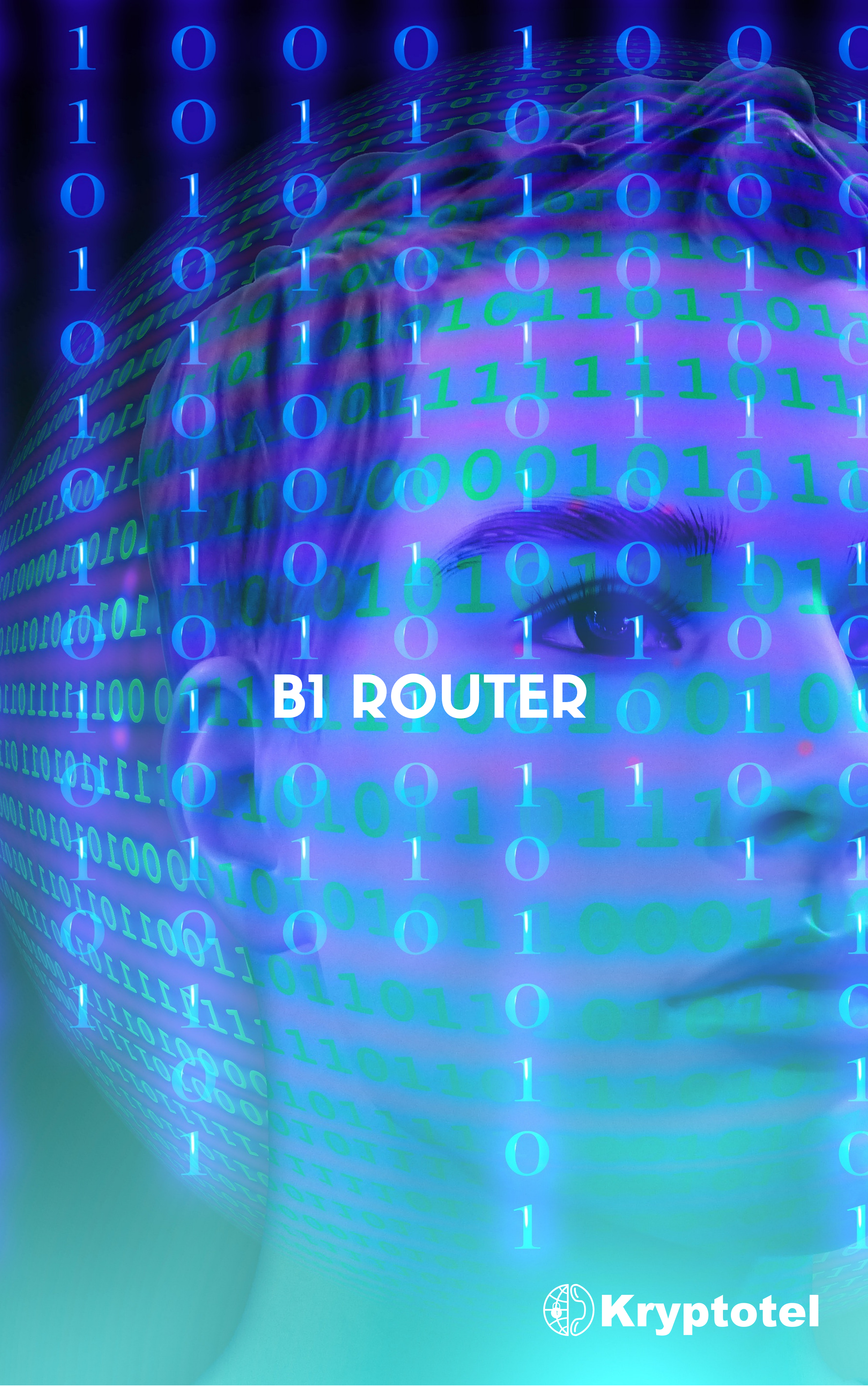
# VPN ONE CLICK

## VIRTUAL PRIVATE NETWORK

- Virtual Private Network (VPN) extends a private network across a public network, such as the Internet.
- A VPN is created by establishing a virtual point-to-point connection through the use of dedicated connections, virtual tunneling protocols, or traffic encryptions.
- VPN allows employees to securely access their company's intranet while traveling outside the office.
- VPN One Click encrypt all the traffic using strong encryption algorithms (RSA up 16384 bits and AES 256) and the OpenVpn Protocol







# BI ROUTER

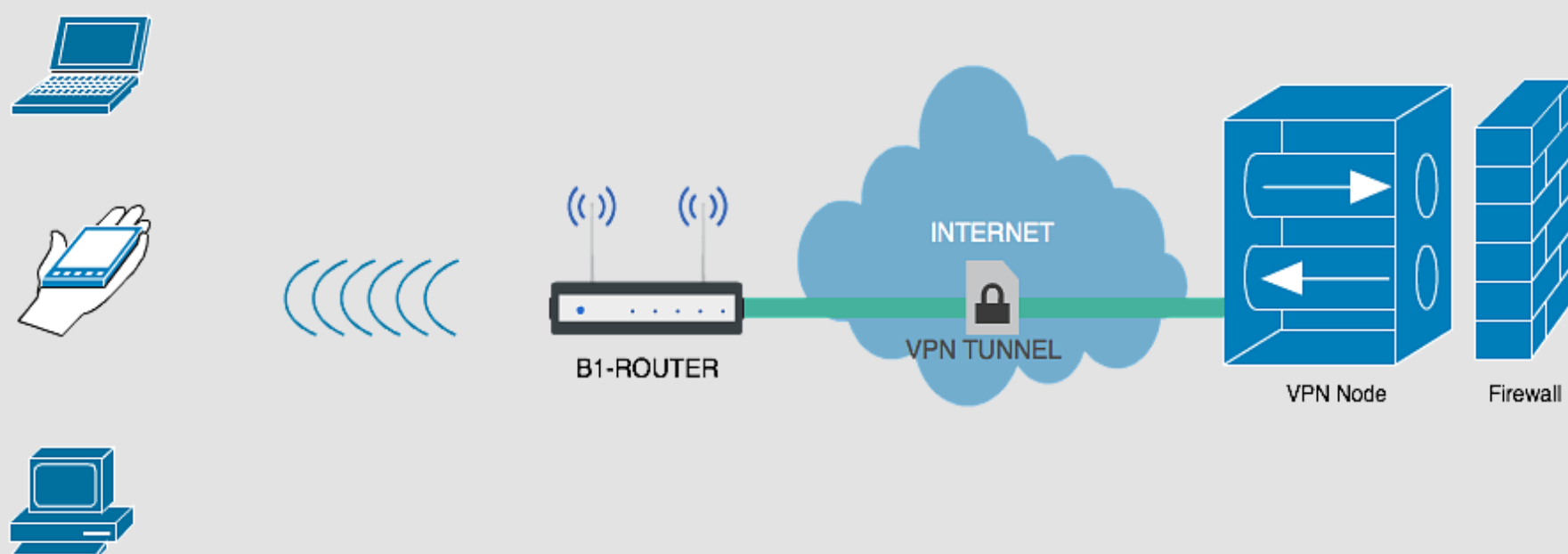


# B1 ROUTER

- B1-Router is a high quality Wifi Router with an integrated VPN Client
- B1-Router protects your internet traffic from hacking and industrial espionage, hides your real IP address and keeps your privacy using internet browser, email, VoIP and chat
- B1-Router connects to our world wide network of VPN servers located in 29 countries
- B1-Router uses super strong encryption
- B1-Router has an integrated active defence system against >2.000 kind of cyber attacks
- B1 Router selects automatically the best WiFi channel

## VPN WiFi Router

B1-Router creates an encrypted tunnel (OpenVPN) from you to our VPN nodes. We have more than 200 VPN nodes in 29 countries



Your data on public internet is encrypted, your real IP address is hidden from the VPN node and you are protected from our smart firewall.



# B1 ROUTER

## B1 Router Active Defence System

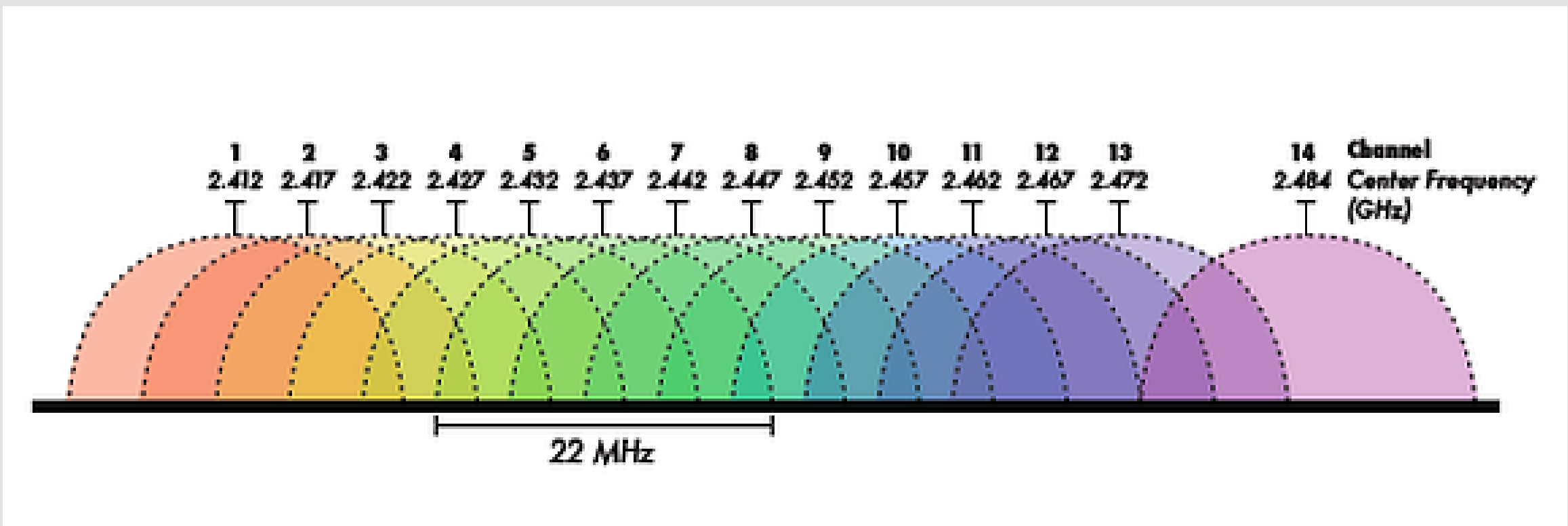
B1-Router has integrated smart intrusion prevention system which is able to detect >2.000 different external attacks and to close immediately any port to the attacker using its internal firewall.



Active Defence runs when B1-Router is used on the “VPN Connection Mode”.

## WiFi Smart Channel Selection

B1-Router makes a smart analysis in real time and selects the best wifi channel automatically.

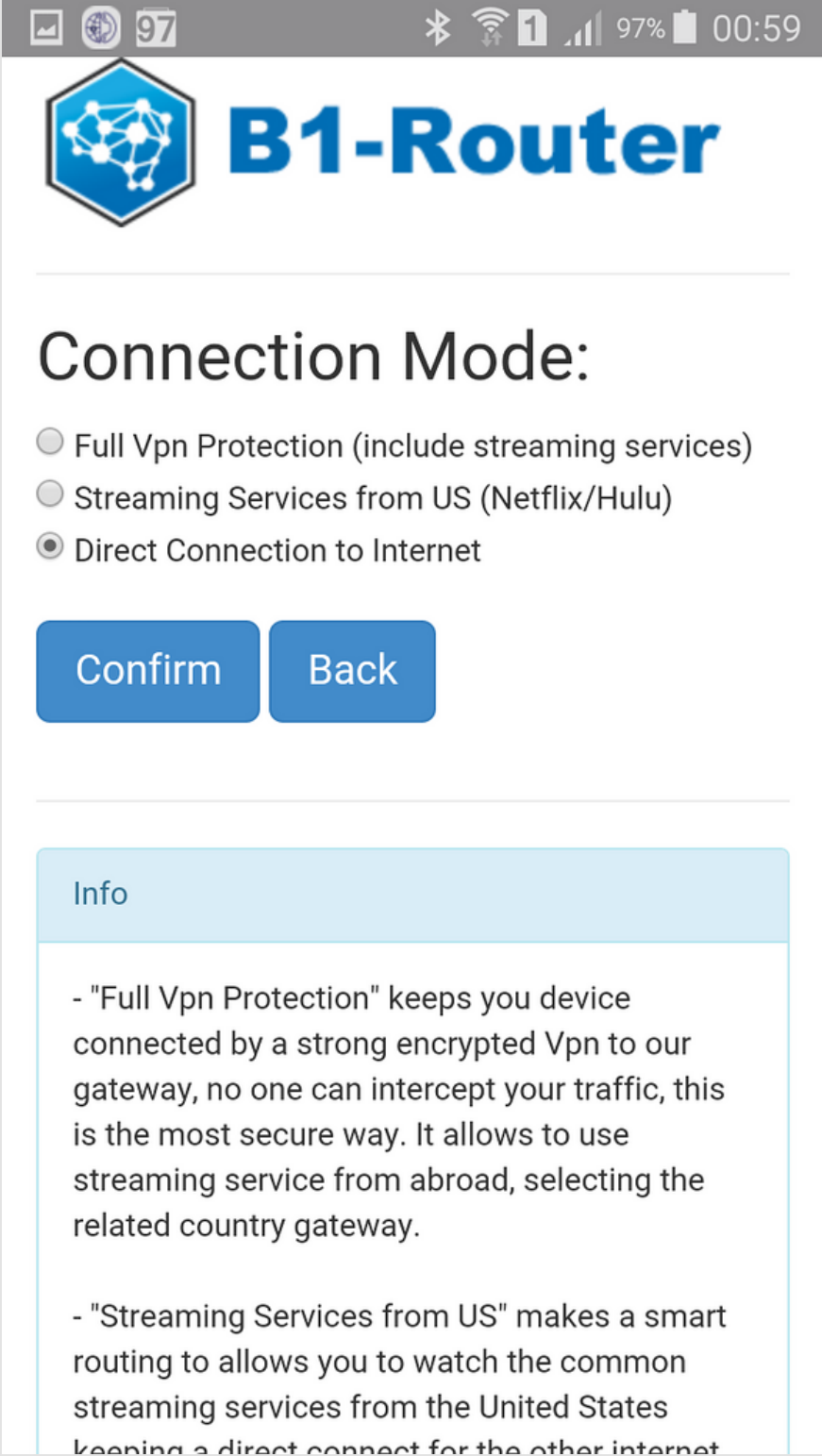
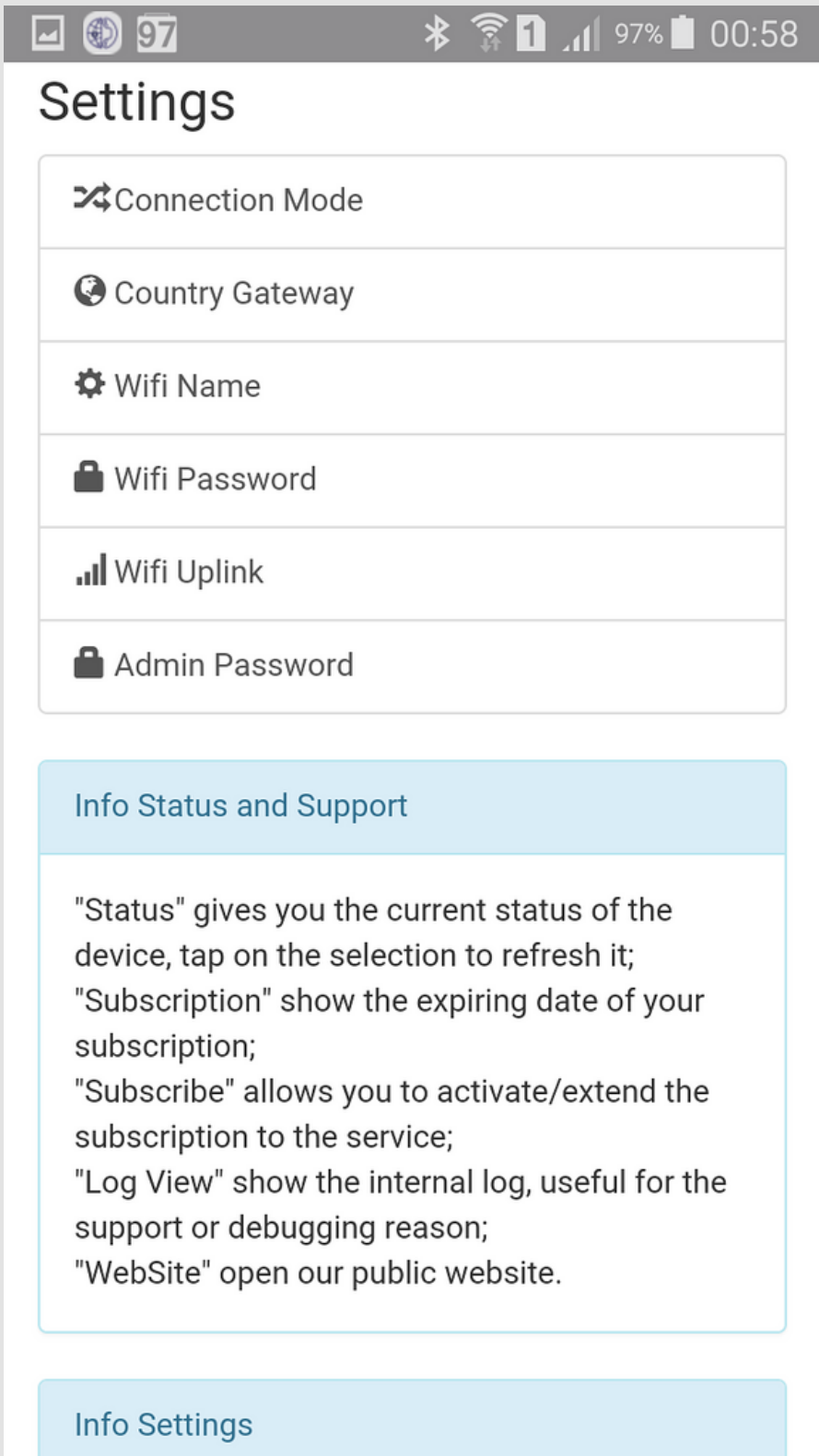
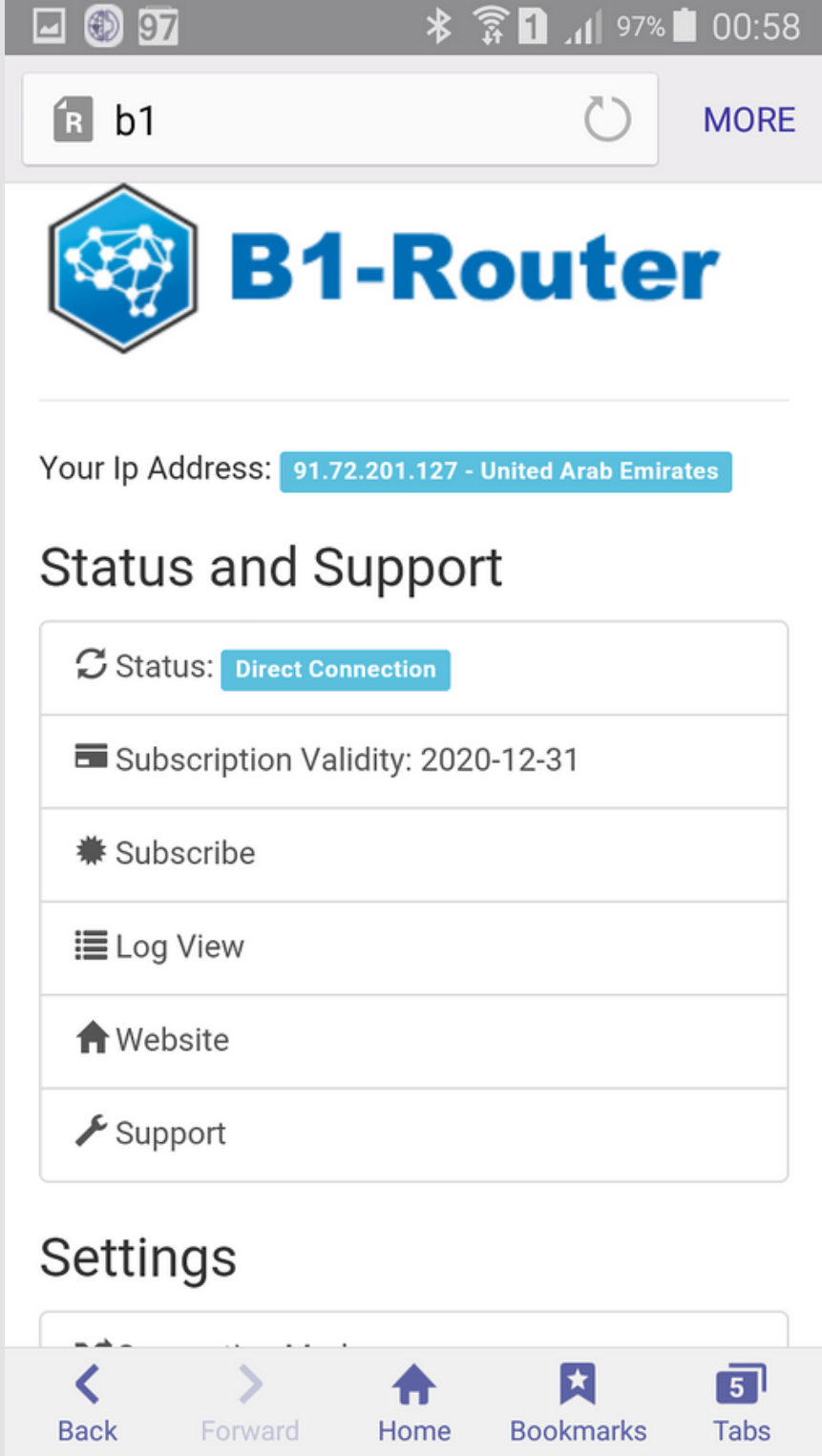
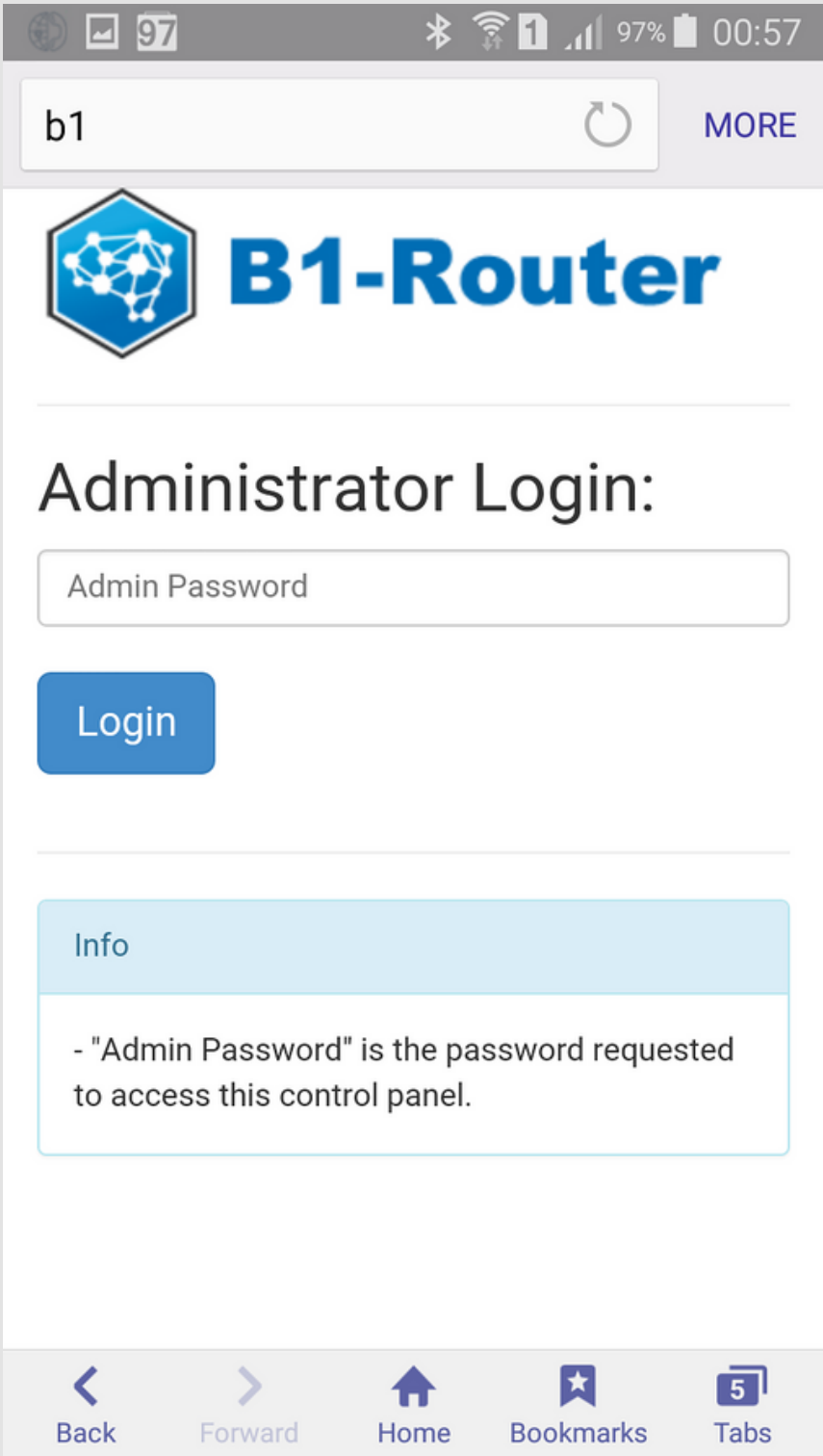


B1-Router makes the best selection automatically whenever its necessary



# B1 ROUTER

B1-Router uses an easy web interface. Users need to type in `http://b1` in the browser.





# B1 ROUTER

B1-Router is a beautifully shaped enclosure made of carbon fibre. It's lighter in weight but stronger than steel. It protects your data from electromagnetic emanation leaking in a similar way to military products (Tempest).



## Super Strong Encryption

B1-Router is a beautifully shaped enclosure made of carbon fibre. It's lighter in weight but stronger than steel. It protects your data from electromagnetic emanation leaking in a similar way to military products (Tempest).







# KRYPTOCHAT



# KRYPTOCHAT

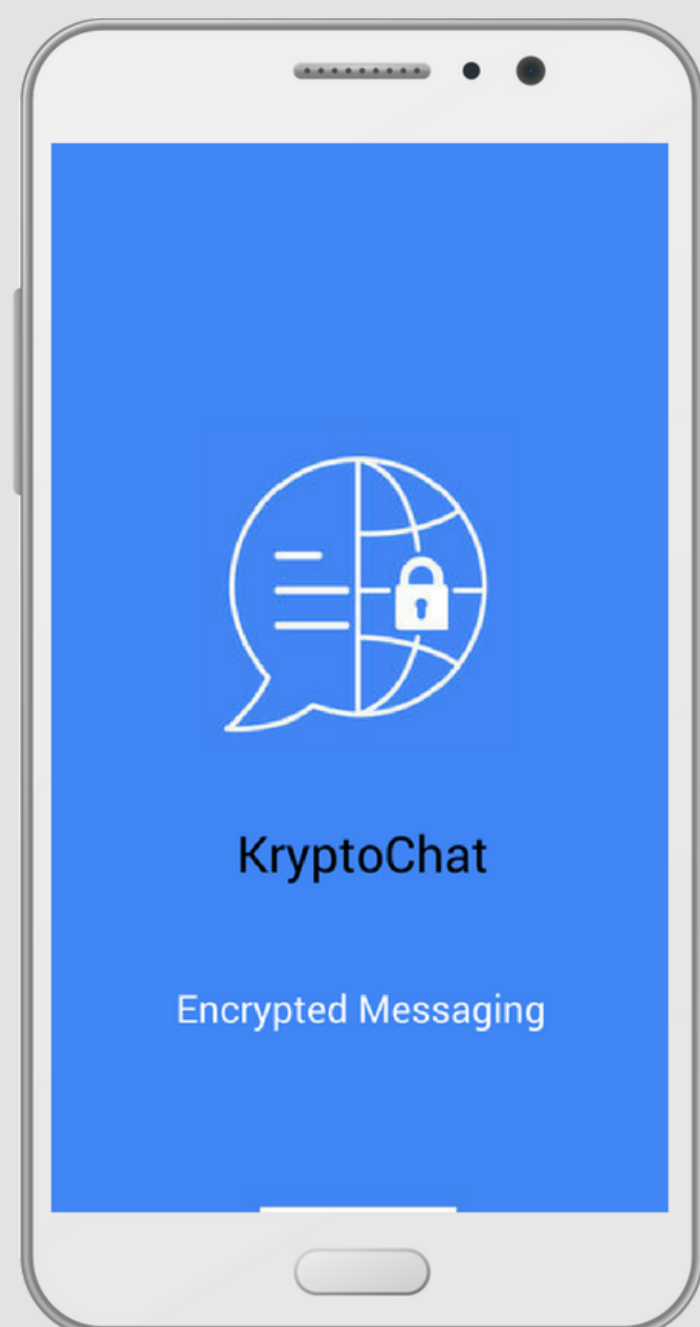
KryptoChat is an encrypted instant messenger application developed by Kryptotel. It has all the features like popular messenger applications available in the market but the only difference is communication with KryptoChat is encrypted.

Some of the features of KryptoChat are:

- Encrypted Instant messaging
- Image, Video and File transfer
- Audio or Voice messages
- GPS Location Sharing
- VoIP calls
- Video Calls
- Audio Conferences

Highlights:

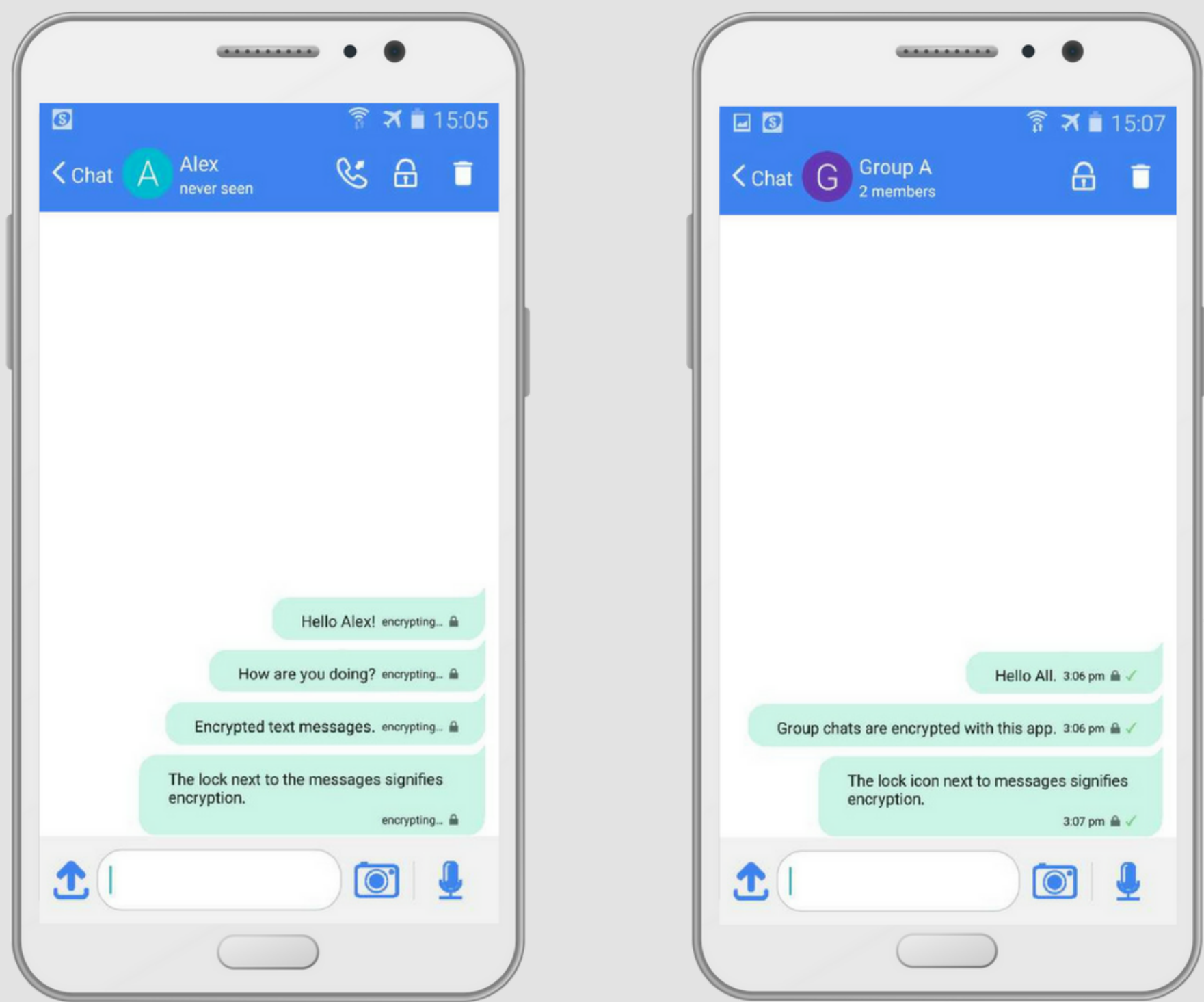
- Available on iOS and Android
- Servers based on Linux OS at your premises, or any location of your choice
- Under active development web interface for computers
- We can release source code of the solution to the client for security review
- Encryption applied to communication channel, device storage and server storage as well
- RSA up to 16384 bits and AES 256 or custom algorithms



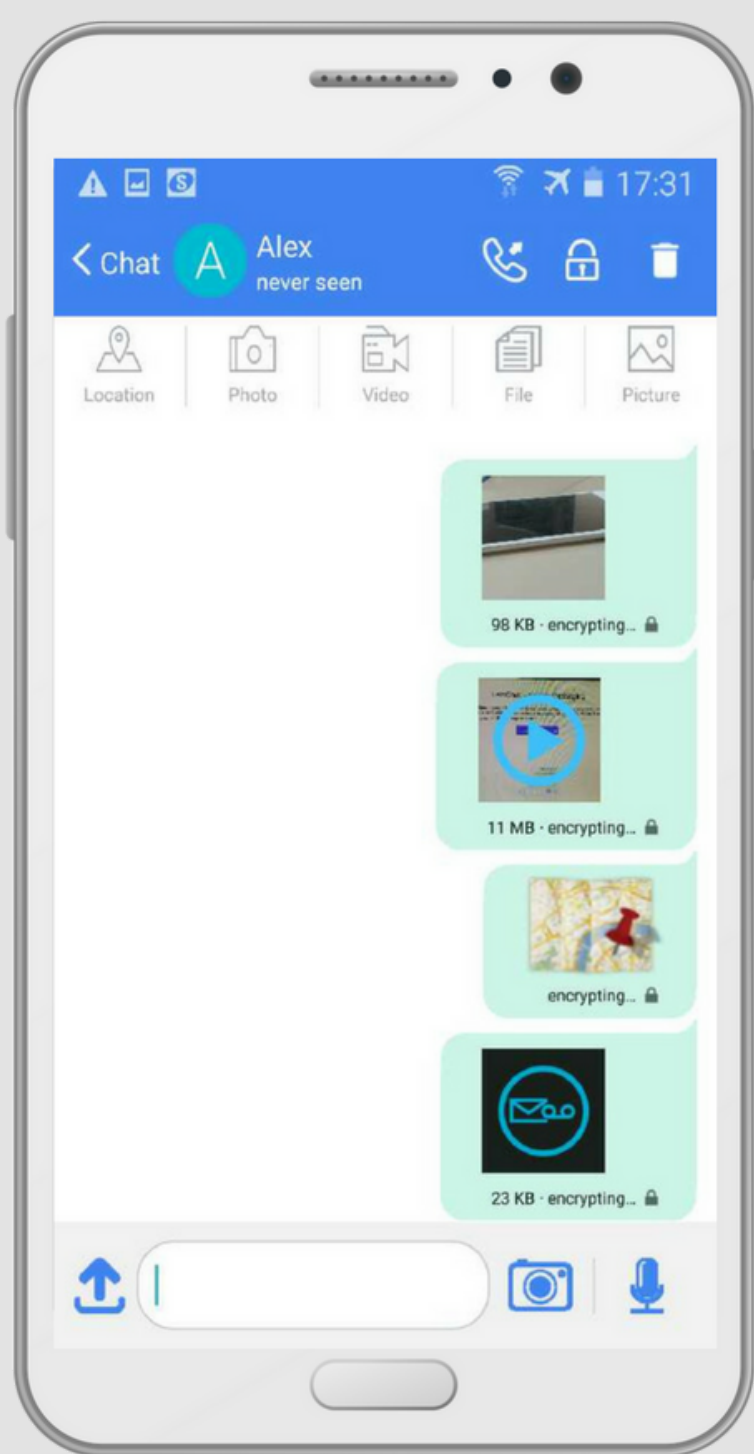


# KRYPTOCHAT

Instant messages one-to-one and group messaging with KryptoChat:



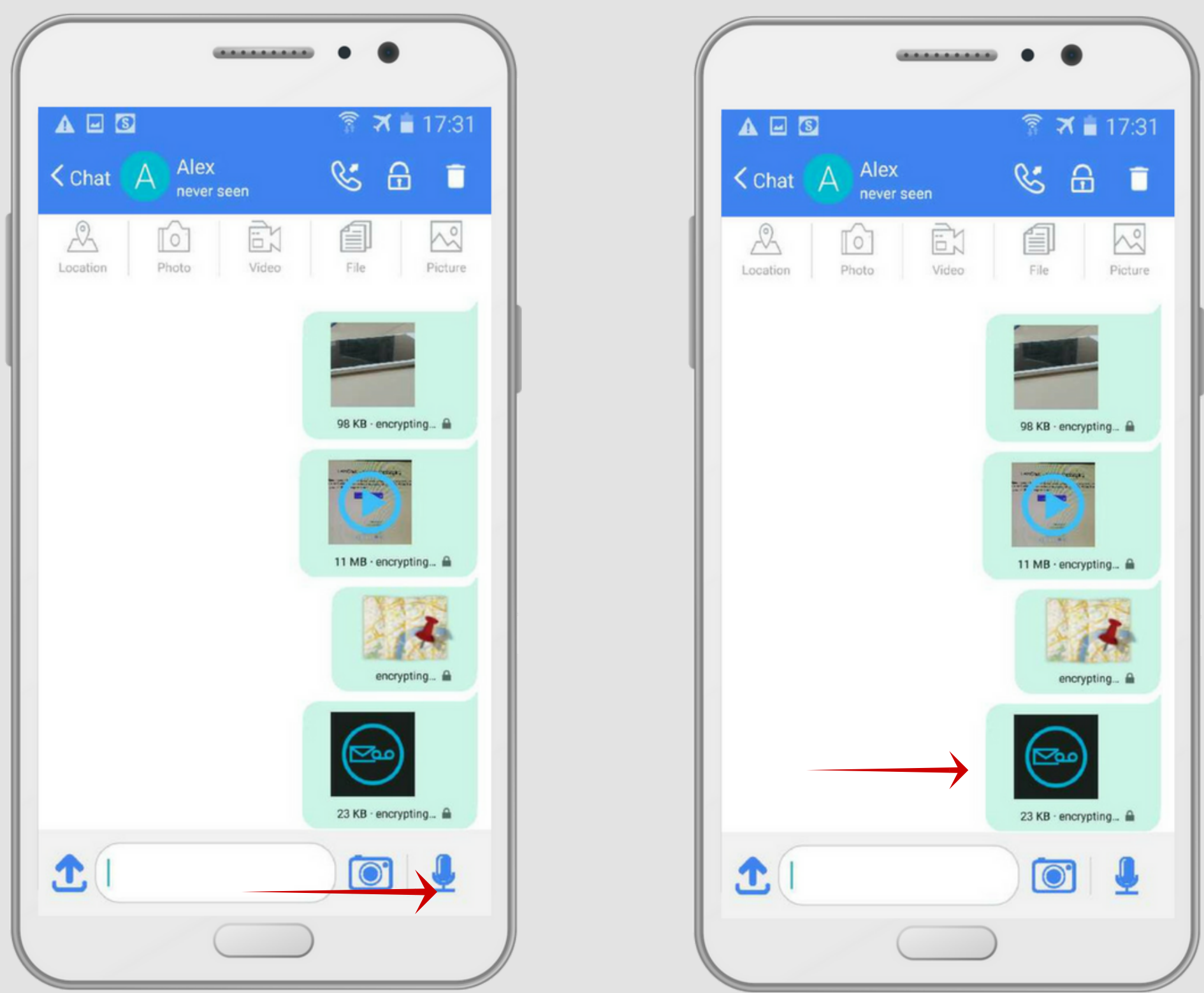
Image, Video and File sharing with KryptoChat:



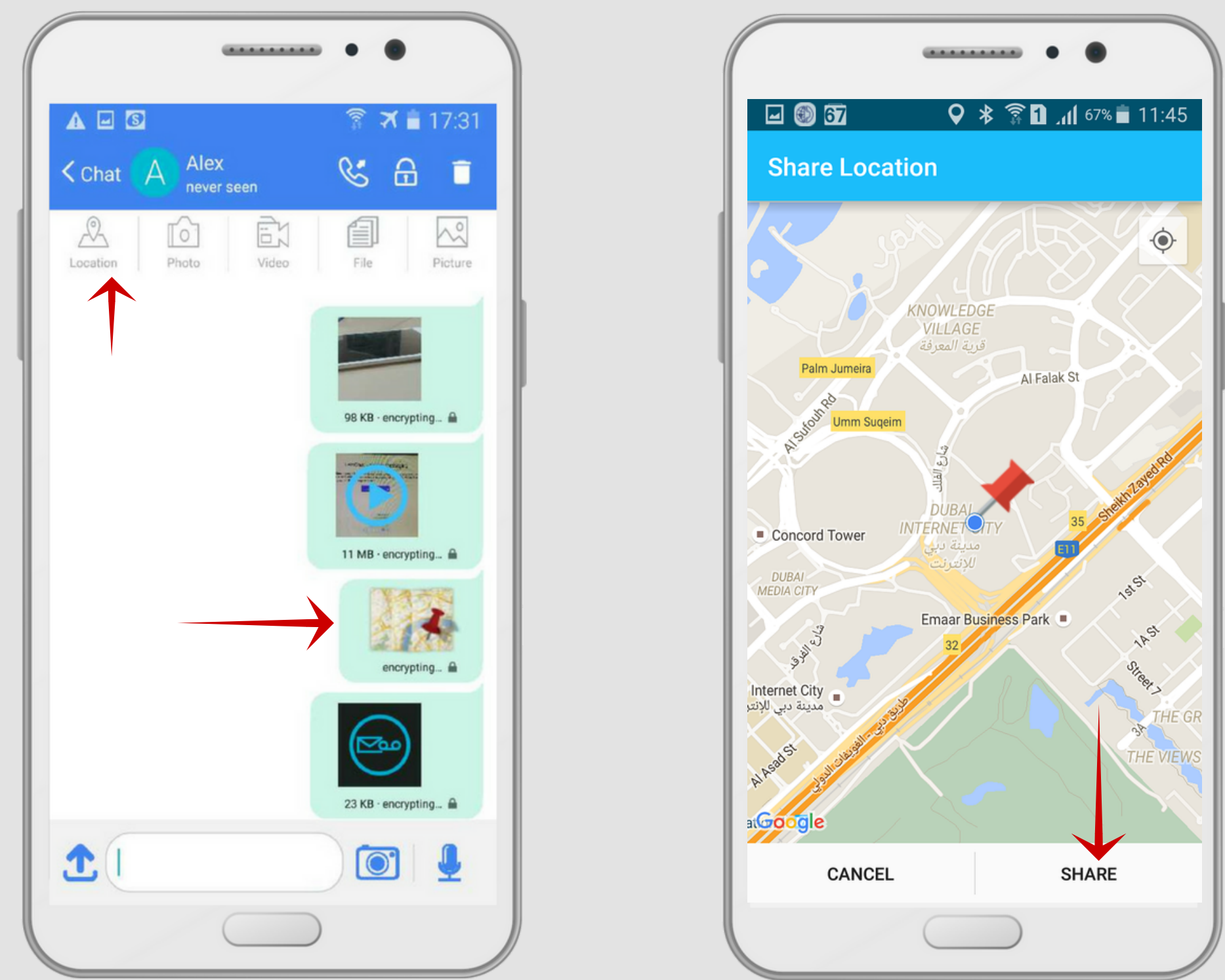


# KRYPTOCHAT

Audio and Voice messages with KryptoChat:



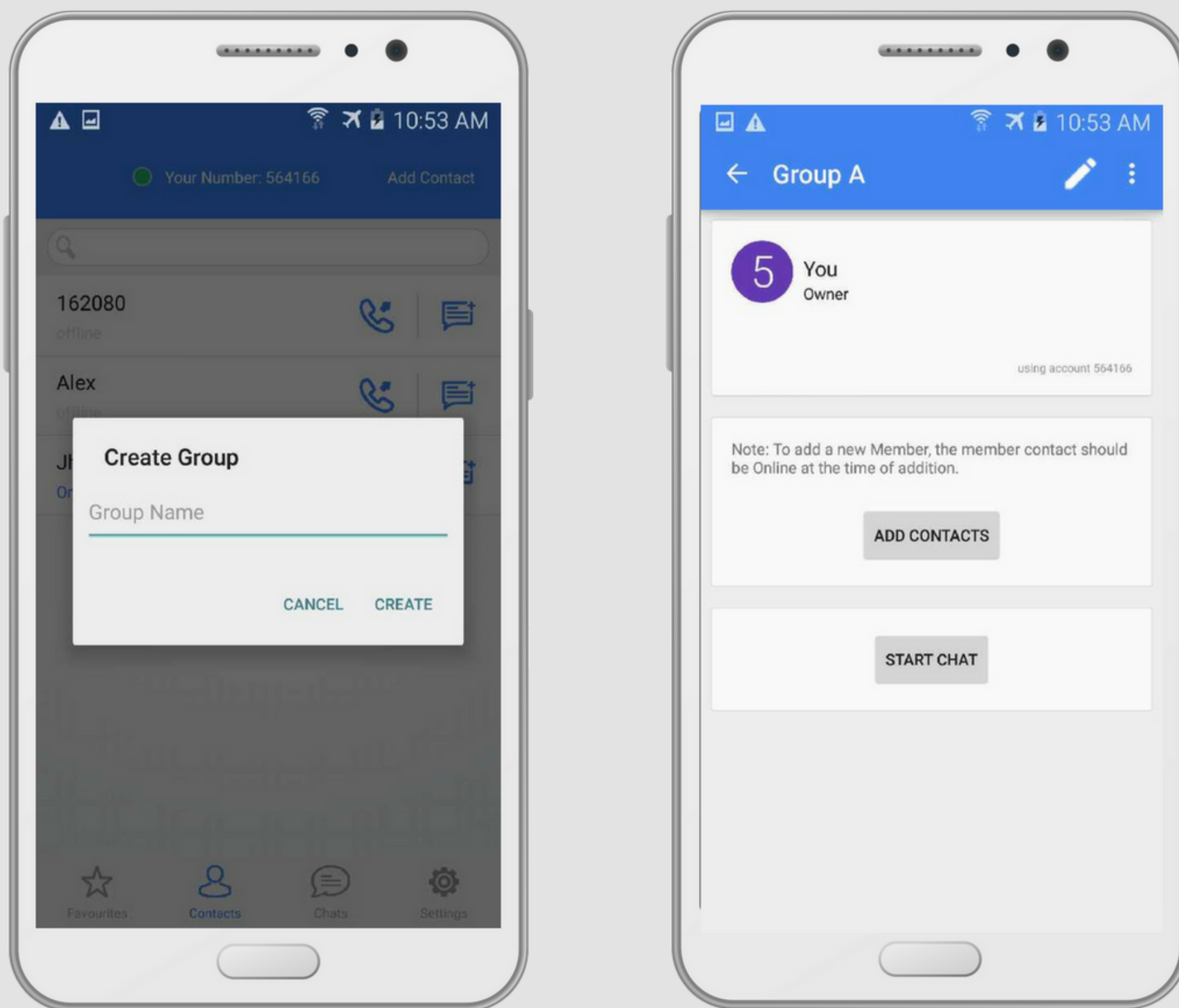
GPS Location Sharing:





# KRYPTOCHAT

Create and Add users to Group:

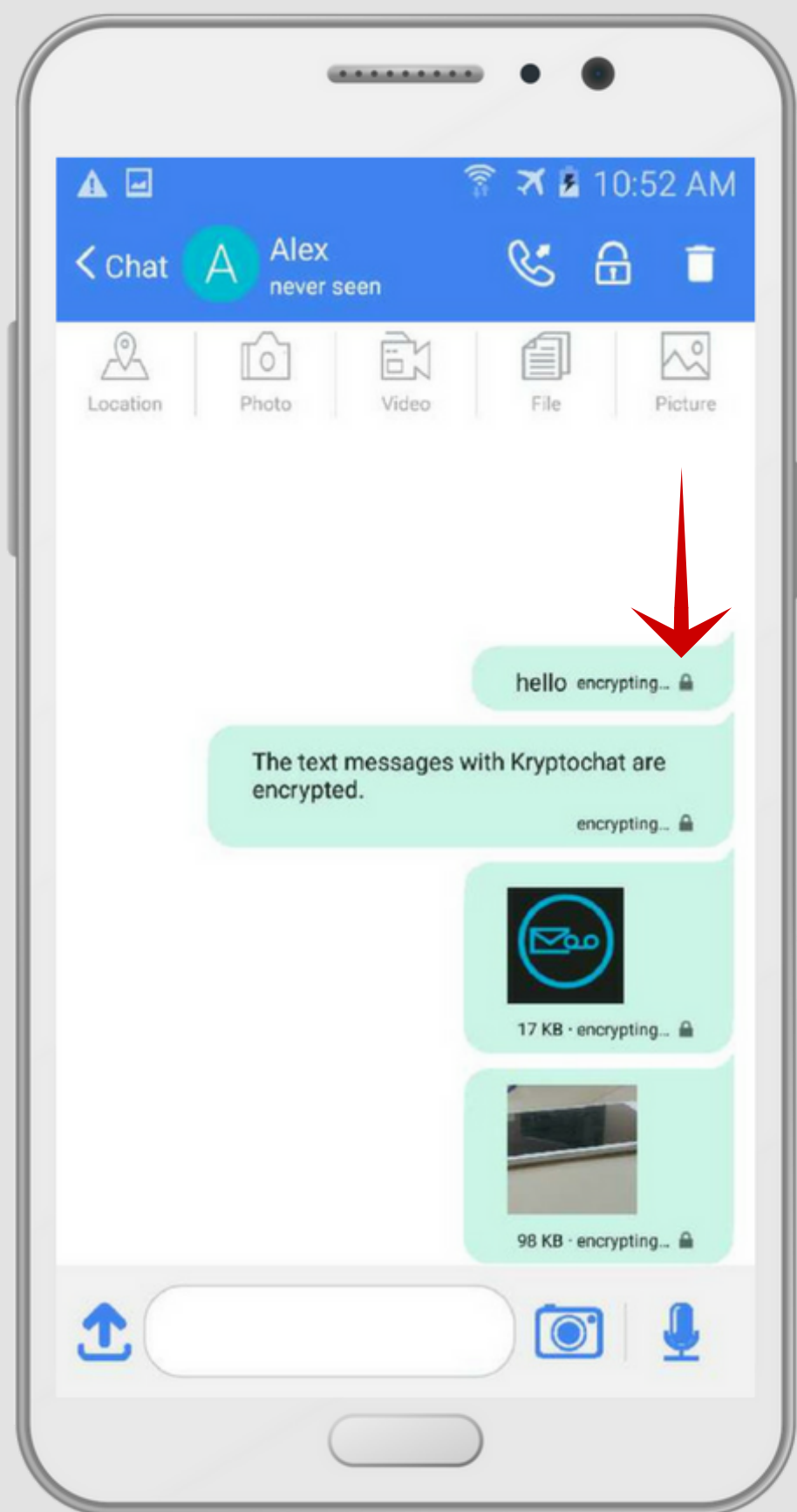



## TLS – Transport Security Layer

- Transport Layer Security (TLS) is a cryptographic protocol designed to provide communication security over a computer network
- Its the protocol always used to maintain your privacy when you connect to your bank over internet (https:// is TLS in web browsing)



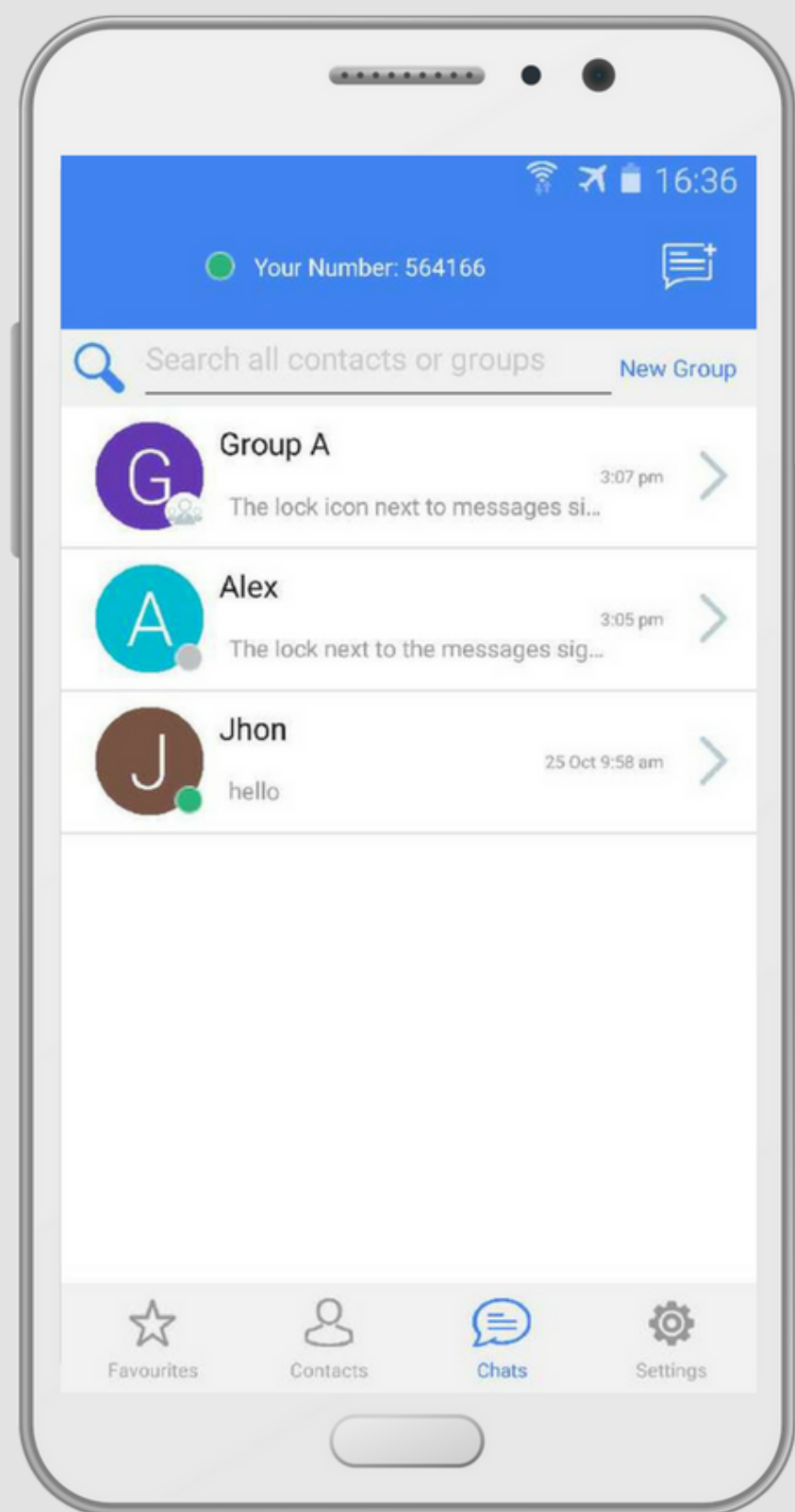
# KRYPTOCHAT





**TLS – When you select TLS as encryption option you are using the same encryption used from any banks for the home banking access.**

OK

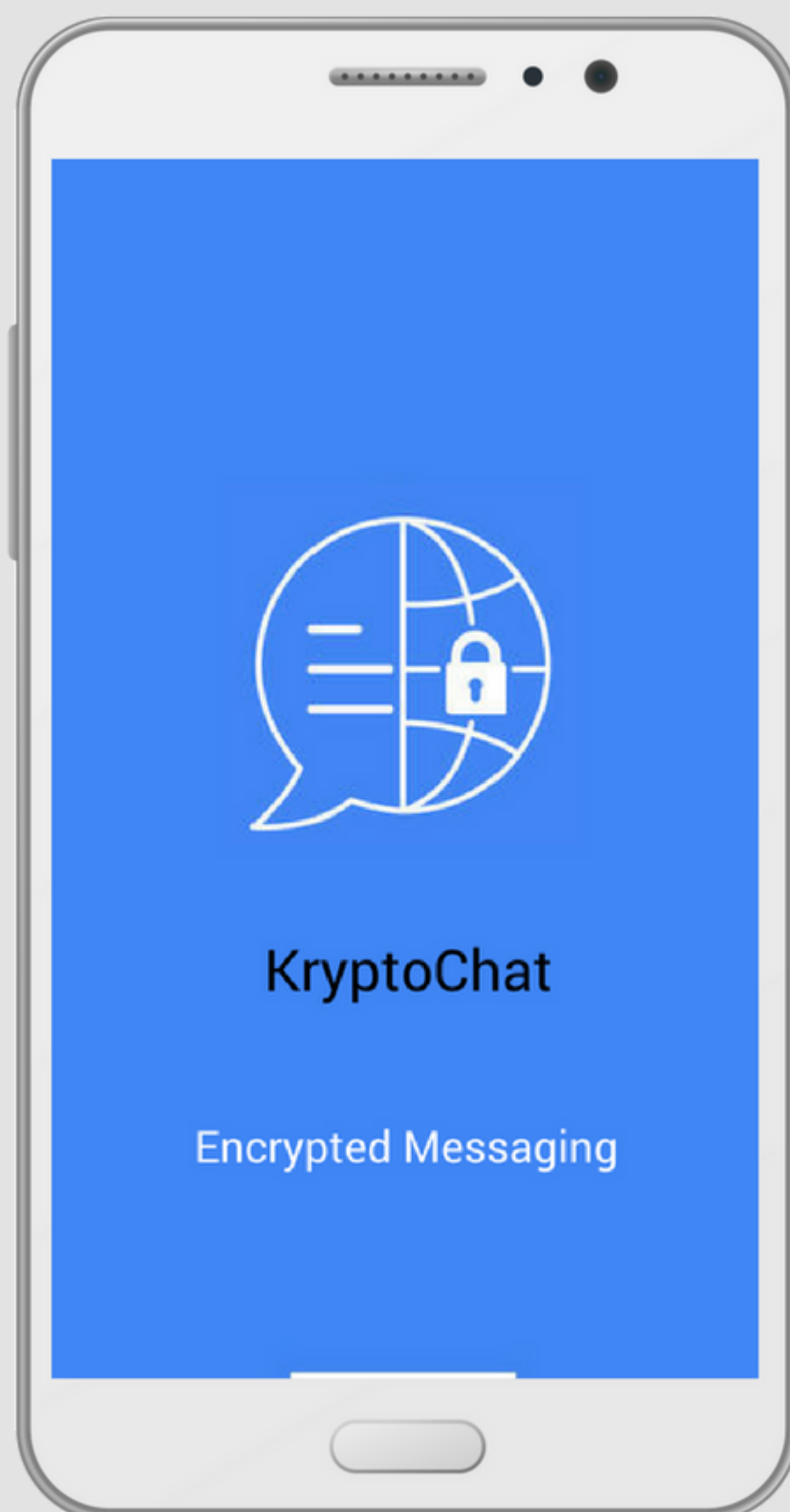




# KRYPTOCHAT

## OTR – Off The Record Protocol

- Off-the-Record Messaging, commonly referred to as OTR, is a cryptographic protocol that provides strong encryption for instant messaging conversations
- OTR uses a combination of the AES symmetric-key algorithm, the Diffie–Hellman key exchange, and the SHA hash function
- In addition to authentication and encryption, OTR provides perfect forward secrecy and malleable encryption





**GET IN TOUCH**

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# Kryptotel

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