



# SecretService

8<sup>th</sup> September 2021

## OVERVIEW

SecretService proposes to be a secure “office-like” tool that combines encryption and steganography together to exchange information via existing email and file-based cloud systems in a manner that hides the fact you are secretly communicating. Utilizing technologies such as ECC/ECIES (Elliptic Curve Cryptography) to exchange keys with a user and enables them to send secret messages and files back and forth, all the while generating decoy data to seem like normal office productivity is occurring. If an eavesdropper, attacker, or even IT Administrator were to see any part of the communication, the messages and communication indicators would appear benign, as the technology camouflages its activity through regularly seemingly innocuous public activity.

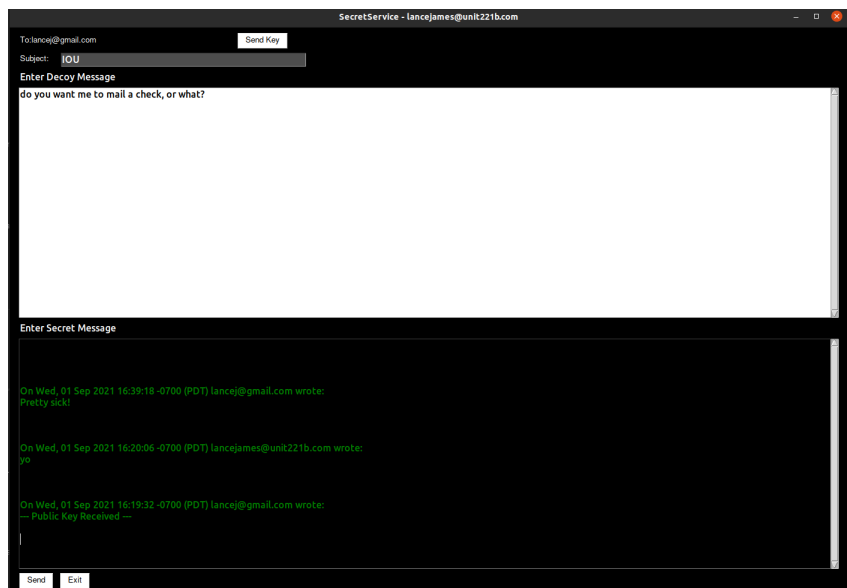
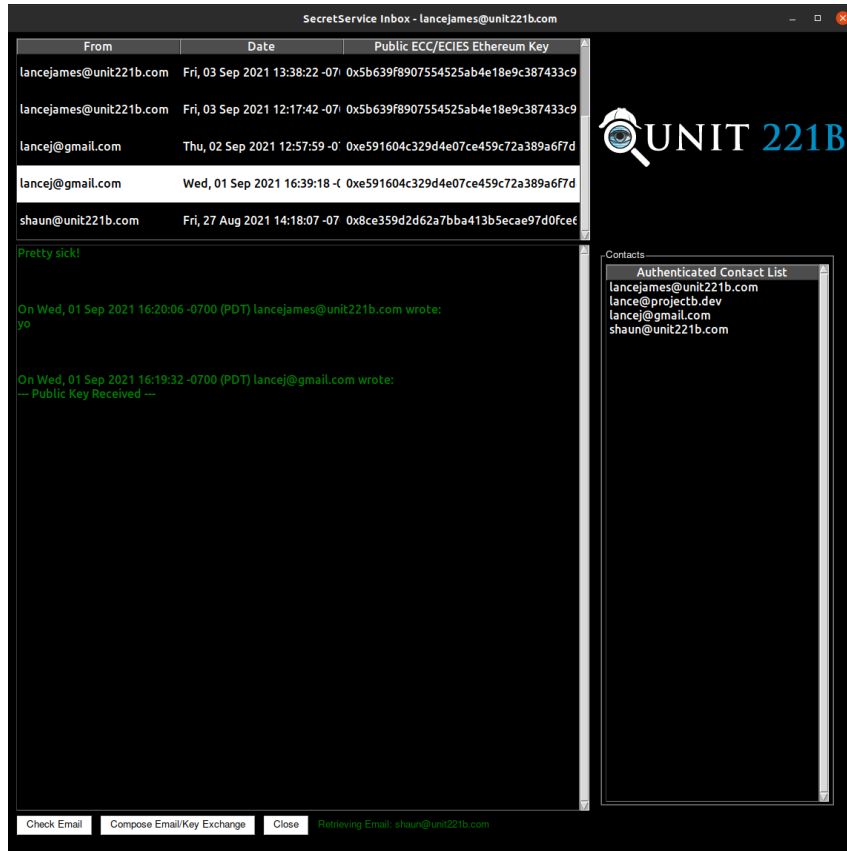
## GOALS

1. To enable reasonable secure communications without detection<sup>1</sup>
2. To offer privacy protection within any environment without compromising the parties.
3. Portable, open-source and untraceable from beginning to end.
4. Cross-Platform use on Mac, Linux, and Windows

---

<sup>1</sup> We aren't promising foreign dissident protection, nor are we overconfident in our means to create something like this. We have no means of testing against foreign governments like China, so we aren't planning on lying to ourselves that we can.

## Screenshots



## **Future Features**

### **File Management**

Portable Encrypted JSON-based Filesystem that can be used on any medium that supports reading a JSON file. Read/Write/Share capabilities.

### **Clandestine Chat**

The ability to directly chat with users across hidden fields within the TCP/IP protocol. Unlike I2P and Tor where it's obvious you're using the protocol, this mechanism will safely encrypt your chat with zero installation requirements, anywhere in the world, embedding messages within existing protocols in use across the Internet.

### **Image-based Key Management**

Key-Management can be a pain due to the centralization problem. Even a blockchain is a form of centralization in the fact that all users must share the same centralized ledger across the network (nothing wrong with that per se). We are proposing the ability to embed public keys within profile pictures in an undetectable way enabling easy lookup of public encryption keys of users across the Internet without the requirements of centralization or handling messy ASCII, binary, or paper key data that will likely get lost over time. The internet will serve as a backup system, and we will deploy secret sharing schemes to rescue private keys if needed simply by pulling a set of images that reside on the internet that are known only to the owner of the key. Put the keys together, and your key is recovered. The Internet is the perfect archive, let's use it that way.