

Technical information about 'Safe Stamper App'

Certification of geolocated photos
videos and audios.

April, 2021

1.- How it works:

After a user has logged into Safe Stamper, he or she has to download and install the Safe Stamper Photo app on the mobile device from which he or she wishes to take the photos and videos. The app is available for Android devices on Google Play and for iOS at the App Store. In order to function properly, the operating system has to be at least an Android 4.0 or higher, or iOS 8.2 or higher.

After taking a photo, video or audio using the app, the user obtains as evidence a certification document which includes the following information:

- A copy of the captured photo, video or audio.
- The coordinates from which the photo, video or audio was taken. These coordinates are taken from the mobile device's geolocation system.
- Safe Stamper's digital signature, and its corresponding timestamp.

The final certificate serves as a rigorous and legally valid piece of evidence, enough to prove the integrity of the captured content, when it was captured, and the exact location of the device at that moment.

2.- App's technology:

Firstly, Safe Stamper App saves either the photo, audio or video and the location of the user's device. That information is uploaded to the Safe Stamper server, working as a third party interposed, and it issues a PDF file digitally signed and timestamped. This way, the file contains detailed information about content, location, date, and time.

3.- Geolocation's accuracy:

Safe Stamper App uses different methods to ensure the location information is as accurate as possible. The system may request information from the device several times, if needed, while the app is working, to guarantee the data is correct.

The precision of the location system depends on the GPS system of the device being active and in range.

In order to ensure the location hasn't been manipulated by the user, Safe Stamper App won't work whenever there are unreliable apps installed on the device. If there are any apps requesting permissions to alter locations, Safe Stamper will inform the user and display an error message until the function is disabled or the app is uninstalled.

The certificate file features altitude, latitude, and post address whenever possible.