

Abstract

Smartphones have become a part of people's lives because they are easy to use and their small form makes them easy to carry everywhere. Smartphones also have many uses, one of which is being able to access social media applications. Social media is a medium for socializing with other people and is done online. Social media can be used as a place to find and share information. The popular social media application is Line Messenger. In this application, users can communicate with other people using the chat message feature, send pictures, videos, or voice messages. The more application users, the more criminal cases will use the application and the more sophisticated the smartphone makes crime more difficult to process legally because it is easy to delete data or manipulate data so that it does not match the original. This requires special handling and the role of digital forensics to handle existing cases. The methods for obtaining digital data are quite diverse, but many have the potential to destroy data so that the data becomes invalid as digital evidence. One method that can be used is using a custom recovery image. Custom image recovery is an acquisition technique by installing applications into a smartphone and storing data into external memory so that it can acquire data without the need to turn on the smartphone. This study aims to see the completeness of the data from the custom image recovery method on the Line Messenger application and compare it with the data acquisition method using the Acquire Magnet forensic application. Generating data containing important information can be acquired using the custom image recovery method and the results of data comparison with the acquisition method using the Magnet Acquire application are the same size, the data content and hash value (MD-5) are identical.

Keywords — Smartphone, Acquisition, Line messenger, Custom Recovery Image, Magnet Acquire