

## ***Abstract***

***In mobile forensics, acquisition is an important stage because it relates to the integrity of data brought to court. The rooting process in acquisition is used to extract more data. However, the rooting process at acquisition is still a debate because rooting can modify data on the device. This study aims to investigate the rooting process and analyze impact user data integrity after rooting on Android device. By using the Android operating system, this study uses custom recovery as a representation of the hard root method in rooting. The study was conducted by comparing the hash value of data integrity and analyzing the code to examine the effect of the root process on the system and user data. The results of this study suggest that the rooting process can be acceptable as a supporting process in mobile forensics, as it maintains the integrity of user data. The results may help investigators in their decision about the acceptance rooting of in Android device.***

***Keywords: Rooting Process, Android, Data Integrity***