DEVELOPMENT OF CUSTOMER-CENTERED FORENSIC EVIDENCE DATA MANAGEMENT SYSTEM FOR MOBILE NETWORK USERS

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ABSTRACT

This paper presents a forensic logging system that collects the call detail records of mobile network users and stores it in real time in a third party database for forensic evaluation of charges. This system comprises of an android application which will be installed on an android smart phone and a third party forensic database. To achieve this purpose, the android application installed in the android mobile phone captures the outgoing phone number, duration of call, time of call and date of the call. It also takes advantage of the unstructured service data provided by the telecommunication service providers at the end of every outgoing call. Also, a mechanism is provided in the android application to enable users to track the metadata stored in the forensic database. The forensic database which is the user-generated information is moderated by an independent third party investigator. This system is expected to provide the telecommunication subscribers with authentic and reliable evidence that will be admissible in the court.

Keywords: Android Mobile Phone, Call Detail Record, Call Log Application, Forensic Database, Metadata.