

ABSTRACT

Radio-frequency identification (RFID) is an electromagnet use to tranfer data that has purpose for identification or searching objects. RFID is divided into two kind, Active RFID which has its own energy source and passive RFID which activates when near energy from other sources. Development of cellphone technology give possibility for RFID to be read by Near Field Communication (NFC). There are several security issues with RFID when it is read by NFC. There is many exploitation of RFID, such as cloning and data modification. The test take place in library. Final results show that University Telkom Student Card (KTM) can be cloned and modified.

Keywords : Cloning, Kartu Tanda Mahasiswa (KTM), Modification, Near Field Communication (NFC), dan Radio-frequency identification (RFID).