Abstract

IoT is evidence of the evolution of the Internet but there are some risks. Issues of threats, security, and attacks related to IoT as a promising and challenging field of research. This makes forensic analysis indispensable for investigating crime related to IoT. This study aims to make the forensic acquisition procedure on the IoT device, the microcontroller as an important device in the IoT ecosystem. To get digital evidence that can be accepted at the trial certainly requires the right procedures in the acquisition process to obtain valid digital evidence as regulated in ITE Law Article 6, Article 15, and Article 6. The method used in this research is acquisition physically using JTAG because it can copy bit-by-bit so that the hash value obtained from digital evidence that has been successfully acquired and can copy data from all memory addresses.

Keywords: Internet of Things, Forensics Digital, Microcontroller, JTAG, Physical Acquisition, UU ITE