

ABSTRACT

Smart campus has been developed in many campuses that supports advanced ICT technology and in realizing smart campus, it needs a more efficient service like attendance system that doesn't require user to manually write in order to mark that the user is present. Smart campuses should integrate technology that had been used by students in order to keep connected. Because of that, a smart identification system is built. The system integrates the server with mobile devices that is used by students by using the wireless technology. Server will have some information from any connected mobile devices like MAC address from any connected devices. Because not all of those connected devices are safe, the security side of the system is really important to validate and guarantee the service to every of its user. Security means that are needed is to detect and prevent any ARP spoofing attack and ARP poisoning. Smart identification system will be the base user identification management that will be integrated to other systems. the system is hoped to support any services at smart campuses. with the security that has been implemented in the system, the smart id system will be protected from any attacks that have been launched by attackers, and the result is a log file data notification and can be integrated to web interfaces.

Keyword : Smart Campus, Smart Identification, MAC Address, ARP Spoofing, ARP Poisoning