

Information and system security in computerized systems

Rurangwa Elias

Independent Institute of Lay Adventists of Kigali, P O Box 6392 Kigali-Rwanda

Email: rurangwa@gmail.com

Abstract

Security threats have recently become a redoubtable weapon against the dependability of computerized system of individual, organization and countrywide; many methods and mechanism have been proposed but still they are many challenges that current commercial solution and recent researches have not resolved. That is why the viruses, threats and other malwares are widespread. Among different security threats, the attackers who only have to find one security flaw to compromise the whole system are challenging because they don't follow rules; they cheat. They can attack a system using techniques the designers never thought of. The best security protocol ever invented can fall to an easy attack if no one pays attention to the more complex and subtle implementation issues (Bruce Schneier, 2008).

This paper passes through some important information security concepts and their possible threats. Thus, the needs of using downloaded or hard stored free or commercial software is necessary, this paper will propose the combination of digital signature scheme which is embedded in developed software with trusted third part that will ensure the dependability of the new features, therefore different threats coming from un-trusted channel will be eradicated.

Keywords— *Security mechanism, security services, security threats, malwares.*