

Protecting Credit Card Confidentiality Using Encryption

Yin Pa Pa Aung, Nay Zar Chi Htoo

University of Computer Studies, Yangon

sumonaungtin@gmail.com, htoo.nayzarchi@gmail.com

Abstract

Cryptography makes secure websites and electronic safe transmission possible. For a web site to be secure all of the data transmitted between the computers where the data is kept and where it is received must be encrypted. This allows people to make purchases for online shopping with their credit cards, without worrying that any of their account information is being compromised. The prevention of credit card fraud is an important application for online shopping process. Therefore, online shopping stores need to validate credit card with credit card validation servers. Moreover, while transferring credit card data over the communication channel, some threats may also occur. Credit card validation servers provide secured web services for the credit card fraud prevention. This system presents how to send credit card number and password security from online stores to credit card validation servers for validity checks. Triple DES algorithm will be used for secure sending over the communication channel. Triple DES provides efficient and secured modification of DES algorithms and its symmetric algorithm.