PROJECT REPORT

COMPRESSSION AND ENCRYPTION SMS ON

ANDROID

Ricmawan Adi Wijaya
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FACULTY OF COMPUTER SCIENCE
SOEGIJAPRANATA CATHOLIC UNIVERSITY

Jl. Pawiyatan Luhur IV/1, Bendan Duwur, SEMARANG 50234
Telp. 024-8441555 (hunting) Web: http://www.unika.ac.id
http://ikomunika.web.id/
APPROVAL AND RATIFICATION PAGE

PROJECT REPORT

Compression and Encryption SMS on Android

This project report has been approved and ratified by the Dean of Faculty of Computer Science and Supervisor on July, 18th 2014

With approval,

Examiners,
Suvanto E. A., Ir., M.Sc

Supervisor,
Shinta Estri W., S.Si, M.Cs
NPP : 058.1.2007.272

Examiners,
Rosita Herawati, ST., MIT
NPP : 058.1.2004.263

Examiners,
Hironimus Leong, S.Kom., M.Kom
NPP : 058.1.2007.273

Dean of Faculty of Computer Science,
Hironimus Leong, S.Kom., M.Kom
NPP : 058.1.2007.273
STATEMENT OF ORIGINALITY

I, the undersigned:

Name : Ricmawan Adi Wijaya
ID   : 10.02.0032

Certify that this project was made by myself and not copy or plagiarize from other people, except that in writing expressed to the other article. If it is proven that this project was plagiarizes or copy the other, I am ready to accept a sanction.

Semarang, July 18th 2014

[Signature]

Ricmawan Adi Wijaya
10.02.0032
ABSTRACT

SMS (Short Message Service) is one of Instant Messaging (IM) which is cheap, simple and easy to be used, that’s why SMS can be used by people from every economy class. One of weakness in SMS is its insecurity. Encryption and compression are two alternative options that can be used to make secure the contents of the sent messages in different ways. Encryption camouflage contents of message by substitution, permutation, expansion, and blocking, whereas compression hide the contents of message by compressing it. The objective of this research is to make double protection in sending SMS with side benefit to reduce the cost of sending SMS. Caesar algorithm and custom byte manipulation are being used for encryption, whereas huffman, LZW, and shannon fano algorithm are three optional algorithm for compression method. The result show that encryption and compression could be implemented in SMS. It bring out an encrypted and compressed message which gives double protection in contents of SMS.

Keyword: SMS, encryption, compression, huffman, LZW, shannon fano, caesar algorithm, custom byte manipulation.
FOREWORD

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Semarang, July 18th 2014

Ricmawan Adi Wijaya
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