

APPROVAL PAGE

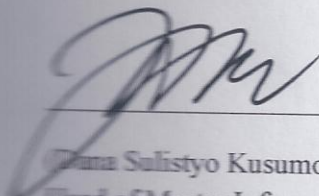
Approval of the Graduate School of Telkom University

Date Sept 2, 2015

 (Dr. Maman Abdurohman)
 Dean School of Computing

I certify that this thesis satisfies all the requirements as a thesis for the degree of Master Informatics/Telecommunication Engineering.

Date Sept 2, 2015

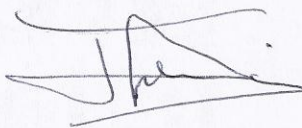


 (Dana Sulistyo Kusumo, ST, MT, PhD)
 Head of Master Informatics

This is to certify that we have read this thesis and that in our opinion it is fully adequate, in scope and quality, as a thesis for the degree of Master of Informatics/Telecommunication Engineering.

Date Sept 1, 2015

 (Arie Ardriyanti, MT)
 Co-Supervisor



 (Prof. The Houw Liong)
 Supervisor

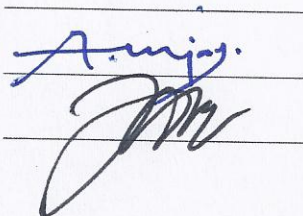
Examining Committee Members:

Date Sept 1, 2015

Dr. Ir. Veronica S. Moertini, MT

Dr. Adiwijaya

Dana Sulistyo Kusumo, ST, MT, PhD



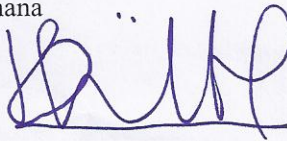
SELF DECLARATION AGAINST PLAGIARISM

I hereby declare that all information in this document has been obtained and presented in accordance with academic rules and ethical conduct. I also declare that, as required by these rules and conduct, I have fully cited and referenced all material and results that are not original to this work.

August 25, 2015

Nova Ikawardhana

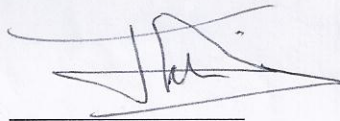
Signature : _____



August 25, 2015

Supervisor: Prof. The Houw Liong

Signature : _____



August 25, 2015

Co-Supervisor: Arie Ardiyanti, MT

Signature : _____