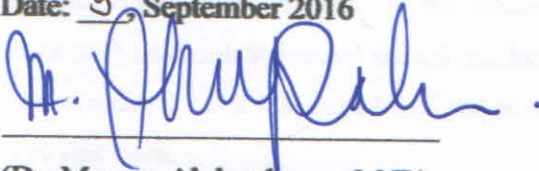


**APPROVAL**

Approval of the Graduate School of Telkom University

Date: 9, September 2016

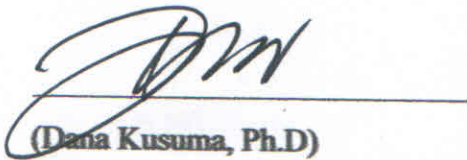


(Dr. Maman Abdurrahman, M.T.)

Dean of Graduate School of Telkom University

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

Date: 9, September 2016



(Dana Kusuma, Ph.D)

Head of Graduate School of Informatics Engineering

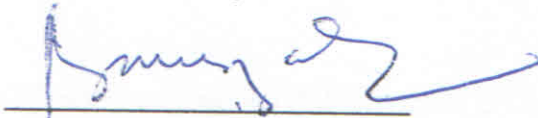
This is to certify that we have read this thesis and that in our opinion it is fully adequate, in scope and quality, as a thesis for the degree of Master of Informatics Engineering.

Date: 9, September 2016



(Dr. Adiwijaya)

First Supervisor



(Andrian Rakhmatsyah, ST.MT)

Second Supervisor

**Examining Committee Members:**

Date of examination: 9, September 2016

1. M. Arif Bijaksana, Ph.D  
(Chairperson of The Jury)
2. Dr. Arief Fatchul Huda  
(Jury's Member)
3. Satria Mandala, Ph.D  
(Jury's Member)

