

APPROVAL PAGE

Approval of the Graduate School of Telkom University

Date (DD/MM/YY) _____

(Ir. Ari Moesriami Barmawi, M.Sc., Ph.D)

Dean of Graduate School of Telkom University

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

Date (DD/MM/YY) _____

(Arie Ardiyanti, S.T., M.T.)

Head 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 (DD/MM/YY) _____

(Dr. Deni Saepudin)

(Prof. The Houw Liong)

Co-Supervisor

Supervisor

Examining Committee Members (first name belongs to the chairperson of the jury and the second name belongs to supervisor, the rest is in alphabetical order of first name).

Date of examination (DD/MM/YY) _____

(Dr. Veronika. S. Moertini) (Chairperson of the jury) _____

(Agung Trisetyarso, Ph.D) (jury's member) _____

(Arief Fatchul Huda, S.Si, M.Kom) (jury's member) _____