

APPROVAL PAGE

Approval of the Graduate School of Telkom University

Date: 28 September 2022

(Dr. Z.K. Abdurahman Baizal, S.Si, M.Kom)

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/Telecommunication Engineering.

Date: 28 September 2022

28/09/22

(Dr. Setyorini, S.T., M.T)

Head of Informatics/Telecommunicationa 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/Telecommunication Engineering.

Date: 28 September 2022

(Agung Toto Wibowo, Ph.D)

Co-Supervisor

(Dr. Z.K. Abdurahman Baizal, S.Si, M.Kom)

Supervisor

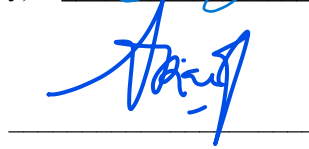
Examining Committee Members,

Date: 28 September 2022

(M. Arif Bijaksana, Ph.D) (Chairperson of the jury)



(Dr. Arie Ardiyanti) (jury's member)



(Dade Nurjanah, Ph.D) (jury's member)