APPROVAL PAGE

Approval of the Graduate School of	f IT Telkom
Date (DD/MM/YY)	
(Ir. Ari Moesriami Barmawi, MSc,	PhD)
Dean of Graduate School of IT Tell	Kom
I certify that this thesis satisfies all	I the requirements as a thesis for the degree of Master Informatics
Engineering.	
Date (DD/MM/YY)	
(Arie Ardiyanti Suryani ST, MT)	
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
•	this thesis and that in our opinion it is fully adequate, in scope and Master of Informatics Engineering.
Date (DD/MM/YY)	
Dute (DD/MM/ 11)	
(Warih Maharani, S.T.,M.T.)	(Dr. Bambang Hariyanto)
Co-Supervisor	Supervisor
•	first name belongs to the chairperson of the jury and the second
	rest is in alphabetical order of first name) Date of examination
(Jimmy Tirtawangsa, Ph.D)	(Chairperson of the jury)
(Ari M. Barmawi, Ph.D)	(jury's member)
(Kemas Rahmat Saleh, ST., m.Eng)	(jury's member)