

**ANALYSIS OF INFORMATION TECHNOLOGY GOVERNANCE  
AND SECURITY USING COBIT 5 AND PCI DSS FOR POLICY  
IMPROVEMENTS : CASE STUDY OF PT XYZ IN IT SERVICES  
AREA**

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in

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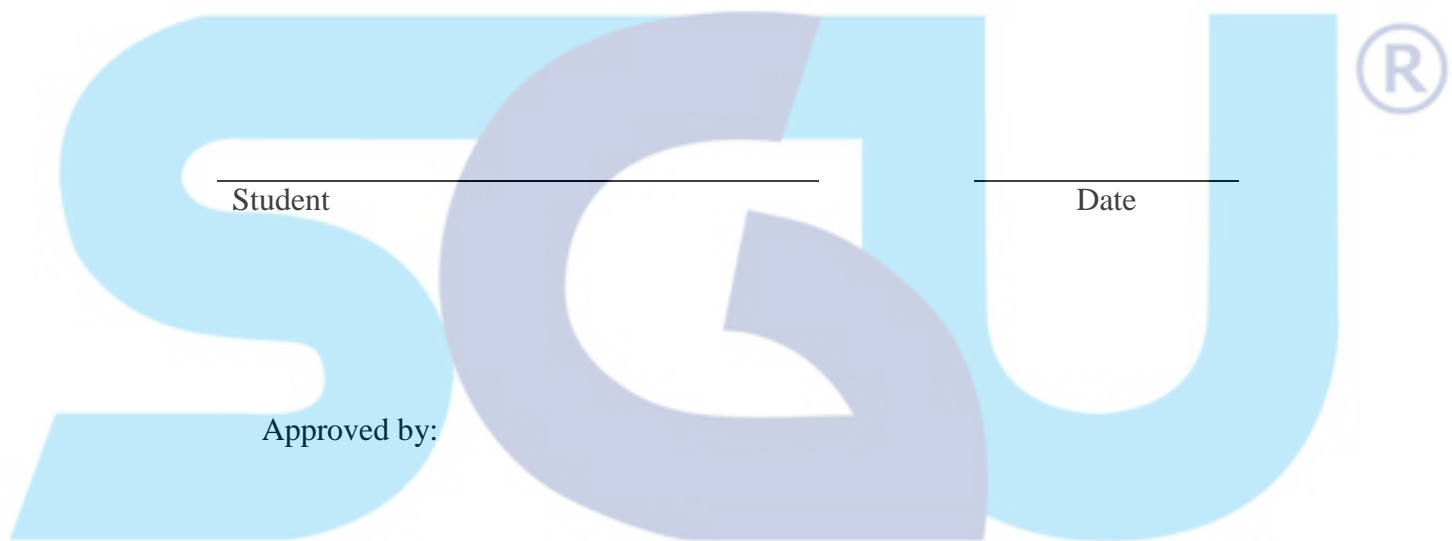


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### STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.



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## ABSTRACT

# ANALYSIS OF INFORMATION TECHNOLOGY GOVERNANCE AND SECURITY USING COBIT 5 AND PCI DSS FOR POLICY IMPROVEMENTS: CASE STUDY OF PT XYZ IN IT SERVICES AREA

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Information and Communication Technology has experienced developments in all aspects of life. PT XYZ as a dedicated cloud service provider must ensure that the service has passed the right to information technology security governance and also meets international standards.

The purpose of this study is to analyses whether the information technology governance at PT XYZ is appropriate and can follow reliable compliance. In this case the researcher uses the Payment Card Industry - Data Security Standard (PCI DSS) and Cobit 5 compliance methodology.

In the process, researchers used COBIT 5 (APO01.08 Maintain compliance with policies, APO03.02 Define reference Architecture, APO12.01 Collect Data, DSS01.03 Monitor Infrastructure, DSS05.05 Manage physical access to IT assets) .

process mapping assistance to support PCI DSS compliance requirements. Data collection techniques used to compile this research are the results of observations, interviews in this case in focus group discussion forums and literature studies. The results of this study are to produce better policies and procedures so that they are more comprehensive in accordance with international compliance standards and increase the company's credibility as a cloud service provider.

*Keywords: COBIT 5, Cloud, Compliance, Standard, PCIDSS.*



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## DEDICATION

I would like to dedicate this research project to my beloved Mom, my Husband, my Son, and my beloved country Indonesia and my second home where I grow in knowledge, IT Services Operations



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Praise God Almighty, for the presence of plenty of mercy and his grace, so that the writer can complete the thesis with the title “ANALYSIS OF INFORMATION TECHNOLOGY GOVERNANCE AND SECURITY USING COBIT 5 AND PCI DSS FOR POLICY IMPROVEMENTS: CASE STUDY OF PT XYZ IN IT SERVICES AREA” is submitted as the final requirement in accomplishing master’s degree at Swiss German University.

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Finally, the writer realizes that the writing of this thesis is still far from perfection. Therefore, the authors ask for suggestions and constructive criticism for its perfection and hopefully it will benefit us all. Amen.

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