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AUDIT OF ACCOUNTING INFORMATION SYSTEM USING COBIT 4.1 FOCUS ON DELIVER AND SUPPORT DOMAIN

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ABSTRACT

The audit is required at a university to evaluate the IT services on accounting information system. The audit of accounting information system at one of the universities in Indonesia aims to determine the maturity level of IT services in support the financial data management. Audit of accounting information system is very important because the university can determine the extent of IT services that has been given. In addition, the audit results can also be used as a reference for the future in improving IT services in accounting information system. Stages of accounting information system audit begin with choosing a domain which includes the identification of business goals, IT goals, IT process and control objectives using COBIT 4.1 framework. The next stage is to collect the necessary data through interviews and surveys using questionnaires. The data collected are then processed to obtain a maturity level. Results of audit of accounting information system that has been conducted show that the maturity index of the entire IT process is 2.69, which means the current level of maturity in 3-defined. The expected level of maturity is 4-managed. A comparison of the current and expected level of maturity to give rise the gap. Improvement strategy are given to overcome the gaps that appear based on the COBIT 4.1 framework and supported by ITIL V3 framework that has been through the mapping process using the COBIT 4.1 IT process.

Keywords: Audit of Information System, COBIT 4.1, ITIL V3, Maturity Level, Gap, Improvement

1. INTRODUCTION

The role of information technology within the university in Indonesia is very important, especially for a university that has the status as a BLU. Each university, which has status as a BLU required to manage financial data independently, systematically and accountable.

Financial data management that independent, systematic and accountable requires a good information technology governance [3]. Information technology governance as an integral part of a company that consists of the leadership, structures and organizational process ensures that information technology within the organization to continue and the organization is improve goals and strategies [2][4].

Audit of accounting information system needs to be done to improve the financial data management and to create an accountable financial report in accordance with accounting standard. Audit of accounting information system is also expected that IT services can provide effectiveness and efficiency in the future.

Audit of accounting information system focus on the delivery and support of IT services is to meet the needs and satisfaction of users. This audit is using two IT governance frameworks that is COBIT 4.1 and to supported by ITIL V3.

COBIT 4.1 is a framework for IT governance that includes planning, implementation, operation and monitoring of the entire process. COBIT 4.1 consists of 4 domains, namely Plan and Organise, Acquire and Implement, Deliver and Support, Monitor and Evaluate with 34 IT process in them [5][9][11]. ITIL V3 framework is a guidelines that provided the best practices for service management [6]. ITIL V3 consists of Service Operation, Service Transition, Service Design, Service Strategy and Continual Service Improvement [10].

COBIT 4.1 framework is used as a reference in determining the IT process and measure the maturity level of IT process. The poor current level of maturity made it necessary to determine an expected maturity level target, which give rise to gap. The gap that appear is used as a reference to determine improvement strategy.

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Improvement strategy are determined based on the COBIT 4.1 framework that is supported by ITIL V3 framework that has been through the mapping process of the IT process in COBIT 4.1 framework [7][12].

Audit of accounting information system using two frameworks provided a better audit results. In addition, weaknesses in accounting information system can be seen in more detail by using two frameworks that COBIT 4.1 and ITIL V3 [10].

Audit of accounting information system using are COBIT 4.1 framework which is used to measure the maturity level of IT services and ITIL V3 as a support in recommendations for improvement. The audit only focused on the 13 IT process in Deliver and Support domain COBIT 4.1 framework. Deliver and Support domain is more emphasis on the process of IT services, system security, training, data management and other of the accounting information system that has been used. While some people have also been conducted audits using IT governance frameworks such as COBIT, ISO 27000, ITIL, COSO and others [5][6][10].

2. AUDIT METHOD

The stages will be performed in audit of accounting information system is shown in Figure 1.

The initial stage in planning an audit is to determine the problem formulation, purposes and problem limitations. In the planning stage, literature study and university data collection are performed to support the audit process. The next step is selection of domain based on the COBIT 4.1 framework.

Selection of domain is conducted to choose the IT process that will be used in the audit. The IT process are obtained through the identification of business goals, IT goals, identification of IT process and identification of control objectives according to the COBIT 4.1 framework.

Data collection is conducted through interviews and surveys using questionnaires. Data were obtained from interviews and surveys using questionnaires then processed to obtain the maturity level of IT process.

Then the obtained IT process maturity level is analyzed. Afterwards the expected level of maturity is determined to see the level of maturity that has been achieved. Comparison of the current maturity level with the expected maturity level give rise to gap.

The gap that appears need to be overcome to provide improvement strategy. It is a step to achieve the expected level of maturity.

The providing of improvement strategy is based on the COBIT 4.1 and ITIL V3 framework that has been through the mapping process. After giving the recommendation, then the final stage of the audit process is the preparation of the final report of the audit results.

3. AUDIT MODEL

3.1. Questionnaire Draft of Maturity Level

Maturity level questionnaires are distributed to 29 respondents within the university. The selected respondents are respondents who have the duty and responsibility in the use of accounting information system.

The statement was designed based on the existing control objective in COBIT 4.1 IT process. Each IT process control objective has statement that describe how those controls are implemented and maintained [11]. Table 1 shown an example of control objective statement draft DS2.2 in IT process DS2.

Figure 1: Stage of Audit Process

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Table 1: Example of Control Objectives Statement Draft DS 2.2

25 2.2		
Domain DS2 Managed Third-party Services		
Control Objective DS2.2 – Supplier Relationship		
Management		
No	Statement Value	
1	The involvement of the system developers, internal parties and users are very close in creating a high value system.	

Each respondent gives rating to the IT process control objective statement that has been determined. The rating of statements is necessary because any such statements are not of equal value in its application [1].

Table 2: The Rating of the Risk Assessment

Risk	Value
High	0,7-1,0
Medium	0,4-0,6
Low	0,1-0,3

The rating is determined from the implementation guidelines and level of importance to the organization. Statement that rated with high risk mean that the statement is very important to be done or implemented. Statement with medium risk rating do not have the threat as big as the high, but still need to be implemented as a precautionary measure. Low risk is not required to be applied, but if it is implemented will increase the performance of system [1].

After making the statement, then questions representing each control objective statement are made. Each statement does not always produced only one question, but it can be more than one as long as these questions can represent each statement [1][3]. Table 3 is contained question draft example that represent a control objective statement of DS2.2 in IT process DS2.

Table 3: Example of Question Draft Represent the Control Objective Statement DS2.2

Control Objective DS2.2 – Supplier Relationship Management							
No Overtion		Score					
110	No Question	0	1	2	3	4	5
1	In what extent is the involvement of the system developers, internal parties and users in creating a high quality system?						

Each respondent provides an assessment of the question that represents the control objective statement by ticking () one score in accordance with the opinion of the respondent. Score of 0 means non-existents, a score value of 1 means the

initial, score of 2 means repeatable, a score of 3 means defined, score of 4 means managed, score of 5 means optimized. Score values being used refers to the maturity level of the COBIT 4.1 framework described in Table 4 [11].

Table 4: COBIT 4.1 Maturity Level

Table 4. COBIT 4.1 Maturity Level			
Level	Description		
0	Organization knew nothing about the issue to be		
(Non-	solved. Each process or problem is not clear		
existents)	defined.		
1	The organization already has proof in		
(Initial)	identifying existing problems but needs to be		
	directed. There i no standard process and the		
	approach taken is ad-hoc.		
2	Organization has a developed process. There is a		
(Repeatable)	procedure to run a defined process, there is no		
	formal training and standard communication		
	procedures.		
3	The organization already has a standardized and		
(Defined)	documented procedure. The procedure has been		
	well communicated through formal training. But		
	at the implementation stage it depends on the		
	individual whether to follow the established		
	procedures or not. Procedure of the organization		
	is not yet perfect but it is a mere formality on		
	existing practice.		
4	Organization monitors and measures the		
(Managed)	procedures and policies that have been		
	effectively implemented. In the event of errors		
	and irregularities, a series of procedures for		
	corrective actions to be undertaken are already		
	exist. Repair are carried out consistently and		
	provide best practices and results. Automation		
	and tools are used limited and fragmented.		
5	The conducted process has had improvement		
(Optimized)	efforts at the level of continuous best practices		
	that produces the best process and best results.		
	The use of integrated information technology is		
	already available there by automation can be		
	done within the organization. A tool to improve		
	the value and effectiveness is already exists thus		
	the organization can well adapt.		

3.2. Measurement of Maturity Level

The results of the questionnaire data processing are used as a benchmark to determine the maturity level of IT process. In Table 5, COBIT 4.1 maturity level assessment criteria are shown [11].

Table 5: COBIT 4.1 Maturity Level Assessment Criteria

Maturity Index	Maturity Level
0 - 0.50	0 – Non-existents
0,51-1,50	1 – Initial/ad hoc
1,51 - 2,50	2 – Repeatable but Intuitive
2,51 – 3,50	3 – Defined Process
3,51 – 4,50	4 – Managed and Measurable
4,51 – 5,00	5 – Optimized

The maturity level is determined in accordance with the COBIT 4.1 framework that provides company capability grouping in the management of IT process from level zero (non-

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existent) to level five (optimized). Each maturity level has a list of statements used as a guidelines in assessing the extent to which the process takes place in the company has fulfilled the statement [8][11]. The maturity level calculation is described as follows [1][2][6].

1. Calculation of the average value of each statement (if the statement is more than one).

Total Rating = (Statement Rating 1)+(Statement Rating 2..n)
Total Statement

2. Calculation of the value score of each statement.

Total Score = (Question Score 1) + (Question Score 2...n)

Calculation of the value score average of each statement.

Value Score = Total Score / Total Question

4. Calculation of the maturity level.

Maturity Level = (Total Rating) x (Value Score)

4. RESULT AND ANALYSIS

4.1. Determination of IT Process

Determination of IT process is performed through several phases. The initial stage is to align the vision, mission and purposes of the university in implementing the accounting information system to the business goals COBIT 4.1. Alignment conducted in order to obtain business goals COBIT 4.1. COBIT 4.1 framework has 17 business goals that are grouped based on the Balanced Scorecard [11].

Next, the related IT goals are associated with IT process contained in the COBIT 4.1 framework for obtaining IT process that will be used in audits of accounting information system. In Table 6 are shown the IT process used in the audit process.

Table 6: IT Process being Used

Table 6: 11 Process being Usea				
IT Process	Description			
DS1	Define and Manage Service Levels			
DS2	Manage Third-party Services			
DS3	Manage Performance and Capacity			
DS4	Ensure Continuous Service			
DS5	Ensure Systems Security			
DS6	Identify and Allocate Costs			
DS7	Educate and Train Users			
DS8	Manage Service Desk and Incidents			
DS9	Manage the Configuration			
DS10	Manage Problems			
DS11	Manage Data			
DS12	Manage the Physical Environment			
DS13	Manage Operations			

Based on the selection of a domain that has been done, an audit of accounting information system focus on the Deliver and Support domain that consists of 13 IT process based on COBIT 4.1 framework.

4.2. Analysis of Current Maturity Level

Analysis of IT process maturity level on Deliver and Support domain is conducted based on the COBIT 4.1 framework to determine the current level of maturity in the accounting information system. The questionnaire calculation results for the entire IT process distributed to 29 respondents can be seen in Table 7.

Table 7: Current Maturity Level of IT Process

IT Process	Current Maturity		
11 Process	Value	Level	
DS1 Define and Manage Service	2,80	3-Defined	
Levels	2,00	Process	
DS2 Manage Third-party	ird-party		
Services	2,67	Process	
DS3 Manage Performance and	2,86	3-Defined	
Capacity	2,00	Process	
DS4 Ensure Continuous Service	2,75	3-Defined	
DS4 Elisure Continuous Service	2,73	Process	
DC5 Engura Systems Coourity	2,76	3-Defined	
DS5 Ensure Systems Security	2,70	Process	
DS6 Identify and Allocate Costs	2,52	3-Defined	
D30 Identify and Anocate Costs	2,32	Process	
DS7 Educate and Train Users	2,68	3-Defined	
DS/ Educate and Train Users		Process	
DS8 Manage Service Desk and	2,71	3-Defined	
Incidents	2,71	Process	
DS9 Manage the Configuration	2,60	3-Defined	
D39 Manage the Configuration	2,00	Process	
DS10 Manage Problems	2,61	3-Defined	
DS 10 Wanage 1 Toblems		Process	
DS11 Manage Data	2,65	3-Defined	
D311 Wanage Data	2,03	Process	
DS12 Manage the Physical	2,76	3-Defined	
Environment	2,70	Process	
DS13 Manage Operations	2,62	3-Defined	
D313 Wanage Operations	2,02	Process	
Maturity Level Average	2,69	3-Defined	
Maturity Level Average	4,09	Process	

In Table 7 is shown that the average level of maturity is 2.69 so that the condition of the current level of maturity is in 3-defined. The maturity level of 3-defined is a condition in which the accounting information system already has standardized and documented procedures. The procedure has been well communicated through formal training but at the implementation stage it depends on the individual whether to follow the established procedures or not.

4.3. Analysis of the Current and the Expected Maturity Level

COBIT 4.1 framework has a measure of maturity level ranging from 0 (non existents) to 5 (optimized) [8][11]. Target level of maturity IT process gradually determined by looking the current level of maturity that is in the 3-defined. It

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is also based on the purpose, vision and mission of the university to be achieved in implementing the accounting information system. Comparison of the current level of maturity with the expected level of maturity is shown in Table 8.

Table 8: IT Process Gaps

IT Process	Maturity Level			
11 Process	Current	Expected	Gap	
DS1 Define and Manage Service Levels	2,80	4	1,20	
DS2 Manage Third-party Services	2,67	4	1,33	
DS3 Manage Performance and Capacity	2,86	4	1,14	
DS4 Ensure Continuous Service	2,75	4	1,25	
DS5 Ensure Systems Security	2,76	4	1,24	
DS6 Identify and Allocate Costs	2,52	4	1,48	
DS7 Educate and Train Users	2,68	4	1,32	
DS8 Manage Service Desk and Incidents	2,71	4	1,29	
DS9 Manage the Configuration	2,60	4	1,40	
DS10 Manage Problems	2,61	4	1,39	
DS11 Manage Data	2,65	4	1,35	
DS12 Manage the Physical Environment	2,76	4	1,24	
DS13 Manage Operations	2,62	4	1,38	

Table 8 is shown that the expected level of maturity is 4-managed. Maturity level of 4-managed is a condition where it is possible to monitor and measure compliance to procedures and policies of accounting information system. If an error occurs when using the accounting information system, a series of procedures for improvement actions to be undertaken is available. Improvement are performed consistently and provides to practices and best results.

Graphic representation of the current level of maturity with the expected level of maturity is shown in Figure 2.

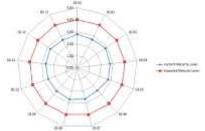


Figure 2: Current and Expected Maturity Level Chart

The graph in Figure 2 is shown that the IT process in the Deliver and Support domain are at the current level of maturity is 3-defined and have not reached the expected level of maturity in 4-

managed, thus causing the gap. Recommendations for improvement should be provided to overcome the that arise gaps so that the expected level of maturity is the maturity level 4-managed can be achieved.

4.4. Improvement Strategy based on COBIT 4.1 and ITIL V3

Recommendations are provided to overcome the gaps refer to the COBIT 4.1 and ITIL V3 frameworks. Improvement strategy are also supported by ITIL V3 framework through mapping process using COBIT 4.1 IT process. COBIT 4.1 framework mapping with ITIL V3 is presented in Table 9 [12].

Table 9: COBIT 4.1 and ITIL V3 Mapping

and IIIL V3 Mapping
ITIL V3 Process
 SD 4.2 Service level
management
• SD 4.2.5.9 Develop
contracts and relationships
 SD 4.7 Supplier
management
 SD 4.3 Capacity
management
 SO 5.1 Monitoring and
control (performance
monitoring)
 SD 4.5 IT service
continuity management
 SO 4.6.8 IT service
continuity management
 SD 4.6 Information
security management
 SO 5.13 Information
security management and
service operation
 SO 4.6.7 Financial
management for IT
services
 SO 5.14 Improvement of
operational activities
• SO 4.2 Incident
management
 ST 4.3 Service asset and
configuration management
SO 4.4 Problem
management
 SD 5.2 Data and
information management
 SO 5.2.3 Backup and
restore
 SD App E Environmental
architectures and standards
 SO 5.12 Facilities and data
centre management
 SO 5.1 Monitoring and
control
 SO 6.4 IT operations
management

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Based on the COBIT 4.1 and ITIL V3 frameworks mapping process, recommendations will be given to overcome the gaps that arise so that the expected level of maturity is in 4-managed can be achieved. ITIL V3 framework is an IT governance guidelines that provides the best practices service management. Improvements strategies towards maturity level 4-managed are shown in Table 10 [11][13][14][15].

Table 10: Improvements Strategies Based on COBIT 4.1

and ITIL V3		
Improvements strategies towards level 4 COBIT 4.1	Improvements strategies towards level 4 ITIL V3	
DS 01	SD 4.2	
 It is necessary to measure and assess the IT services based on defined criteria effectively. It is necessary for an analysis of the causes of the problems in the service were not fulfilled. 	 There are plans to increase IT services that is run effectively. There is policies and procedures are always followed. There are SLA and OLA are used as a guidelines in managing IT service levels. 	
DS 02	SD 4.2.5.9 and SD 4.7	
Has the policies and procedures established to manage the relationship between services with system developers effectively. There is an agreement of all the parties involved to monitor the IT services provided by the system. DS 03	There are monitoring results reported from developer system effectively. There are plans to run of IT services to improve the services to be provided by the system developer. SD 4.3 and SO 5.1	
It is necessary to monitor	There are a plans the	
the performance and capacity so that if not enough can be overcome with established procedures. It is necessary for reporting of performance and capacity that is used to support the passage of effective IT services.	availability of performance and capacity are defined to improve the IT services. There are monitoring and reporting the availability of IT services are conducted to effectively.	
DS 04	SD 4.5 and SO 4.6.8	
Responsibility and plan of IT service continuous contained in the contract that has been set. Monitoring of IT services effectively to ensure and improve IT service continuous.	There are records about the use of IT services that serve as a reference in ensure continuous service. There is a risk management according to ITIL V3 framework. There are policies and procedures for continuous services. There is a continuous service plan to be implemented in the future to support the improvement of IT services.	

BS 05 Has the security policies and procedures are established and implemented effectively. It is necessary for testing, monitoring and reporting to lead to improved levels of security effectively.	There are policies and procedures of IT security that must be adhered and understood. There is IT security audit be done effectively. There is a setting user access rights in IT service management. There is a security testing of IT services.
DS 06	SO 4.6.7
It is necessary to understand the accountability of IT services costs. Has the policies of IT services cost allocation are set so that the use of funds does not deviate. It is necessary for monitoring and evaluating the cost of IT services to prevent irregularities costs. Has the evaluation report on the cost of IT services	 There is a cost allocation policies for IT services that according to user needs. There are reports of the use of IT service costs. There is an evaluation of the budgeted costs and expenses that have been used.
effectively.	
ř	00.514
DS 07	SO 5.14
 Education and training are performed effectively to develop the IT services to suit the user's needs and developing technology. It is necessary to classify the duty and responsibility of the user to take part in education and training. It is necessary to monitor the program are given in the education and training effectively. 	There are measurements through operational audits. There is a responsibility of each staff of the given task. There are problems management that have a lot of improvement solutions. There are education and training that conducted and monitored effectively. There is a measurement of the results of education and training which aims to enhance education and training in the future.
DS 08	SO 4.2
 It is necessary to handle the incident in accordance of established responsibilities and standards. It is necessary to train the service desk staff to be able to handle the problem/incident that appears effectively. 	There is a procedures to identification and classification of the incident/problem. There are diagnosis and investigation of IT services to effectively.
DS 09	ST 4.3
It is necessary for monitoring, tracking and reporting on configuration file storage effectively.	There is a configuration management policies to adhered and understood. There are monitoring

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DS 10 • Responsibility in solving	and reporting to the configuration management. SO 4.4 There is a detection of	measurement of the maturity level using is COBIT 4.1 framework. The maturity level of IT process is at the maturity level of 3-defined and the expected level of maturity is 4-managed to give rise the gap.
problems. It is necessary to recording and reporting identifying the problem	problem according to the standard ITIL V3. There is a problem categorization.	The improvement strategy given to overcome the appear gaps are based on COBIT 4.1 supported by ITIL V3 framework.
It is necessary for the integrated management of problems through communication among staff involved in solving	 There are records of problems that arise. There is a detection of problem during system development. 	6. FURTHER RESEARCH DIRECTION The audit results are expected to be used as a reference in developing and improving IT
problems.		services in accounting information system in the

ised IT future. The audit of accounting information system in the future is also expected to not only focus on IT process in the Deliver and Support domain but also the entire IT process contained in the COBIT 4.1 framework. The expected maturity level must also be increased to the maturity level of 5optimized which is the highest maturity level in the COBIT 4.1 framework. The next audit it is also expected to be able to use some of the IT governance framework as comparison.

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ISSN: 1992-8645 www.jatit.org DS 11 SD 5.2 and SO 5.2.3 There is a strategy to • It is necessary to manage data in accordance with restore and backup data. duties the There is the responsibilities. responsibility of the • It is necessary to monitor administrator to manage the management of data the data. such as back up and There is restore data effectively. management process to manage data assets. DS 12 SD App E and ST 3.1 • Has There is the security access procedures limitation to the environment and physical environment and that is used to control physical. There is access the environments agreement and hardware against any person who • It is necessary to monitor access environment environment physical access. physical. There are monitoring and reporting to the environment physical. DS 13 SO 5.1 and SO 6.4 • It is necessary to monitor There is a record of the computing resources operations carried out and tasks assigned. effectively. There are monitoring It is necessary document the tasks and and recording schedules that are owned notifications that appear. by the staff to the There is monitoring of management of IT and the operation so that if a business can more easily problem occurs can be monitor the operations. taken improvement action.

5. CONCLUSION

The conclusion of the audit that has been done is an audit of the accounting information system includes audit planning, the selection of the domain consists of identifying the business goals, IT goals, IT process and control objectives, data collection, processing and analysis of data, improvement strategy and preparation of an audit results of final report. Audit of accounting information systems focus on the domain Deliver and Support with 13 IT process contained in it. The

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