

Abstrak

Semakin berkembangnya zaman dan kebutuhan IT pun semakin meningkat. Maka banyak instansi pemerintahan mulai membutuhkan perbaikan-perbaikan pada sistemnya. Laporan Akhir ini membahas tentang pengauditan di Kementerian perdagangan Divisi Pusat Data & Informasi. Kementerian Perdagangan adalah instansi pemerintahan yang bergerak dibidang pelayanan perdagangan. Pengauditan *menggunakan Monitor and Evaluate IT Performance (ME1), Monitor and Evaluate Internal Control (ME2), Ensure Regulator Compliance (ME3), Provide IT Governance (ME4), dan Ensure System Security (DS5)*. COBIT (*Control Objective for Informal Related Technology*) adalah suatu panduan standar praktik manajemen teknologi informasi yang dirancang sebagai alat penguasaan IT yang membantu dalam pemahaman dan menganalisis resiko. Dalam pengauditan ini menggunakan COBIT dan data-data berasal dari wawancara, kuesioner dan observasi.

Kata kunci : **COBIT, audit**

Abstrack

The continued development of the times and the needs of IT is increasing. So many government agencies began to require improvements in the system. This Final Report discusses the auditing division at the Ministry of commerce & Information Data Center. Ministry of Commerce is a government agency operating in the trade ministry. Auditing using the Monitor and Evaluate IT Performance (ME1), Monitor and Evaluate Internal Control (ME2), Ensure Regulatory Compliance (ME3), Provide IT Goverance (ME4), and Ensure System Security (DS5). COBIT (Control Objective for Informal Related Technology) is a standard manual of information technology management practices that are designed as an IT governance tool that mebantu in understanding and analyzing risk. In this audit using COBIT and the data derived from interviews, questionnaires and observation.

Keywords:**COBIT,audit**

DAFTAR ISI

LEMBAR PENGESAHAN	i
PERNYATAAN ORISINALITAS LAPORAN PENELITIAN	ii
PERNYATAAN PUBLIKASI LAPORAN PENELITIAN	iii
Kata Pengantar	iv
Abstrak.....	vi
Abstrack.....	vii
DAFTAR ISI	viii
Daftar Gambar	xii
Daftar Singkatan	xiii
BAB I PENDAHULUAN.....	1
1.1 Latar Belakang Masalah.....	1
1.2 Rumusan Masalah.....	2
1.3 Tujuan Pembahasan	2
1.4 Ruang Lingkup Masalah.....	3
1.5 Sumber Data	6
1.6 Sistematika Penyajian	6
BAB II KAJIAN TEORI	8
2.1 Sistem Informasi	8
2.1.1 Definisi Sistem Informasi	8
2.2 Analisis Sistem.....	8
2.2.1 Pengertian Analisis Sistem.....	8
2.2.2 Langkah-Langkah Di analisis Sistem	9
2.3 Audit Sistem Informasi	9
2.3.1 Definisi Audit Sistem Informasi.....	9
2.3.2 Cara melakukan Audit	10

2.3.3	Langkah-langkah Audit Sistem Informasi	12
2.4	COBIT Framework	14
2.4.1	Pengertian COBIT	14
2.4.2	Kerangka Kerja COBIT	15
2.4.3	Maturity Model	18
2.4.3.1	Level 1 – Initial/Ad Hoc	19
2.4.3.2	Level 2 –Repeatable but Intuitive.....	19
2.4.3.3	Level 3 – <i>Defined</i>	20
2.4.3.4	Level 4 – Managed and Measurable.....	20
2.4.3.5	Level 5 – <i>Optimised</i>	20
2.4.4	<i>Key Goal Indicator</i>	21
2.4.5	<i>Key Performa Indicator</i>	22
2.5	Penjelasan Proses-proses yang Diambil	22
2.6.1	Monitor And Evaluate IT Performance (ME 1).....	22
2.6.2	Monitor And Evaluate Internal Control (ME 2).....	25
2.6.3	Ensure Compliance With External Requirements (ME 3).....	28
2.6.4	Provide IT Governance (ME 4).....	31
2.6.5	Ensure System Security (DS5).....	35
2.6	<i>Electronic-Government (e-goverment)</i>	39
2.6.1	Pengertian <i>Electronic Government (e-government)</i>	39
2.6.2	Manfaat <i>E-government</i>	41
BAB III ANALISA DAN PEMODELAN.....		43
3.1	Visi,Misi dan Tujuan Kementrian Perdagangan.....	43
3.1.1	Visi	43
3.1.2	Misi	43
3.1.3	Tujuan	43

3.2	Struktur Organisasi	45
3.3	Proses Bisnis	45
3.3.1	INATRADE	45
3.3.2	Penguna Sistem Inatrade.	47
3.4	Hasil Analisis dan Temuan Audit	52
3.4.1	<i>Monitor and Evaluate IT Performance (ME1)</i>	52
3.4.1.1	<i>ME.1.2 Definition and Collection of Monitoring Data</i>	52
3.4.1.2	<i>ME1.3 Monitoring Method</i>	53
3.4.1.3	<i>ME 1.4 Performance Assesment</i>	54
3.4.1.4	<i>ME1.5 Board and Executive Reporting</i>	55
3.4.1.5	<i>ME1.6 Remedial Actions</i>	55
3.4.2	<i>Monitoring and Evaluate Internal Control (ME2)</i>	58
3.4.3.1	<i>ME2.1 Monitoring of Internal Control Framework</i>	58
3.4.3.2	<i>ME2.2 Supervisory Review</i>	59
3.4.3.3	<i>ME2.4 Control Self-assessment</i>	60
3.4.3.4	<i>ME2.5 Assurance of internal Control</i>	62
3.4.3	<i>Ensurance Compliance With External Requirements (ME3)</i>	64
3.4.3.1	<i>ME3.1 Identification of External Legal, Regulatory and Contractual Compliance Requirements</i>	64
3.4.3.2	<i>ME3.2 Optimisation of repson to External Requirements.</i> .	66
3.4.3.3	<i>ME3.3 Evaluation of Compliance With External Requirements.</i>	68
3.4.3.4	<i>ME.3.5 Integrated Reporting</i>	70
3.4.4	<i>Provide IT Goverance (ME4)</i>	73
3.4.4.1	<i>ME4.1 Establish of an IT Goverance Framework</i>	74
3.4.4.2	<i>ME4.2 Strategic Aligment</i>	75

3.4.4.3	ME4.4 <i>Resource Management</i>	76
3.4.4.5	ME4.5 <i>Performance Measurement</i>	77
3.4.5	<i>Ensure System Security(DS5)</i>	80
2.4.5.1	DS5.1 <i>Management of IT Security</i>	81
2.4.5.2	DS5.3 <i>Identity Management</i>	82
3.4.5.3	DS5.4 <i>User Account Management</i>	83
3.4.5.4	DS5.5 <i>Security Testing, Surveillance and Monitoring</i>	85
3.4.5.5	DS5.7 <i>Protection of Security Technology</i>	86
3.4.5.6	DS5.10 <i>Network Security</i>	88
BAB IV PENUTUP		92
4.1	Kesimpulan	92
4.2	Saran	98
Daftar Pustaka		101
LAMPIRAN		102
LAMPIRAN RIWAYAT HIDUP CALON PENELITI		102

Daftar Gambar

Gambar. 1 Aliran Sistem Informasi	8
Gambar. 2 Langkah-langkah Audit	14
Gambar. 3 COBIT Framework	16
Gambar. 4 Seluruh proses COBIT	17
Gambar. 5 Sumberdaya Dan Kriteria.....	18
Gambar. 6 Struktur organisasi	45
Gambar. 7 Alur INATRADE.....	47
Gambar. 8 Gambar Proses Flow Registrasi hak akses.....	49
Gambar. 9 Gambar alur perijinan.....	50
Gambar. 10 Gambar Dokumen Pendukung.....	51
Gambar. 11 Jaringan pertukaran Data Elektronik.....	C.1
Gambar. 12 PDE kota Batam.....	C.1
Gambar. 13 Gambar Pedoman Tata Kelola TIK	C.2
Gambar. 14 Gambar Indikator ESW	C.3
Gambar. 15 Gambar Log-log pengguna Sistem	C3
Gambar. 16 Keputusan Prsiden no 80.....	C.4
Gambar. 17 Gambar Website Resmi PT.Data TRENZ	C.5
Gambar. 18 Ikhtisar hasil pemeriksaan BPK semester II tahun 2010.....	C.6
Gambar. 19 Gambar Pedoman Tata Kelola Informasi di Kementrian Perdagangan	C.7
Gambar. 20 Gambar Peraturan Presiden tentang Penggunaan Sistem Elektronik.....	C.8
Gambar. 21 Gambar Unit Pelayanan Perijinan.....	C.9
Gambar. 22 Gambar Gedung Kementrian Baru.....	C.9
Gambar. 23 Gambar Loker-Loker Pelayanan di UPP	C.10
Gambar. 24 Gambar Aplikasi INATRADE.....	C.10
Gambar. 25 Gambar Hak akses dalam INATRADE.....	C.11
Gambar. 26 Gambar Inputan Pendaftaran hak Akses	C.12
Gambar. 27 Gambar Dokumen Registrasi hak Akses	C.13
Gambar. 28 Gambar Dokumen Persetujuan Hak Akses.....	C.14
Gambar. 29 Gambar form Perijinan IP Plastik (1).....	C.15

Gambar. 30 Gambar tabel Dokumen Pendukung	C.15
Gambar. 31 Gambar form Perijinan IP Plastik (1).....	C.16
Gambar. 32 Gambar Ruangan Server di Kementerian Perdagangan.....	C.17
Gambar. 33 Jaringan PDE.....	C.17

Daftar Singkatan

COBIT	:Control Objective for Information Related Technology
Pusdatin	:Pusat Data & Informasi
UPP	:Unit Pelayanan Perijinan
TI	:Teknologi Informasi
SDM	:Sumber Daya Manusia
CAAT	:Computer Aided Auditing Technique
ISACA	:Information Systems Audit and Control Association
INSW	:Indonesia Nasional Single Window
NSW	:NASional Single Window
SOP	:Standar OPeration Procedure
SLA	:Service Level Arrangement
APBD	:Anggaran Pendapatan dan belanja Negara
ULP	:Unit Layanan Pengadaan
BPK	:Badan pemeriksaan Keuangan
Permendag	:Peraturan Mentri Perdagangan
SKA	:Surat Keterangan Asal
QA	:Quality Anssurance
NOC	:Network Operation Center
PDE	:Pertukaran Data Elektronik.
PPBM	:Pengawasan dan Pengendalian Mutu Barang