

## DAFTAR ISI

ABSTRAK .....	i
<i>ABSTRACT</i> .....	ii
LEMBAR PENGESAHAN .....	iii
LEMBAR PERNYATAAN ORISINALITAS .....	iv
Kata Pengantar .....	v
Daftar Isi.....	vi
Daftar Gambar.....	xi
Daftar Tabel .....	xiii
Daftar Singkatan.....	xv
Daftar Lampiran.....	xvii
Bab I PENDAHULUAN .....	18
I.1 Latar Belakang.....	18
I.2 Perumusan Masalah.....	20
I.3 Tujuan Tugas Akhir.....	20
I.4 Batasan Tugas Akhir .....	20
I.5 Manfaat Tugas Akhir.....	20
I.6 Sistematika Penulisan.....	21
Bab II TINJAUAN PUSTAKA.....	23
II.1 <i>Enterprise Architecture</i> (EA) .....	23
II.2 <i>Enterprise Architecture Framework</i> .....	24
II.2.1 <i>Zachman Framework</i> .....	25
II.2.2 <i>Federal Enterprise Architecture Framework</i> (FEAF) .....	25
II.2.3 <i>Department of Defense Architecture Framework</i> (DoDAF) .....	26
II.2.4 <i>The Open Group Architecture Framework</i> (TOGAF) .....	27
II.2.4.1 <i>TOGAF ADM</i> .....	28

II.3	Perbandingan <i>Framework</i> EA.....	29
II.4	<i>Reference Model</i> .....	31
II.4.1	TeamMate Audit.....	31
II.4.2	Qualtrax.....	33
II.5	Penelitian Terdahulu.....	34
II.5.1	Balai Besar Teknologi Pencegahan Pencemaran Industri (BBTPPI) Semarang .....	34
II.5.2	PT Albasia Nusa Karya.....	35
II.5.3	Disnakersostrans Kabupaten Purwakarta.....	36
II.5.4	Balai Latihan Kerja Dan Produktifitas Provinsi Jambi.....	37
II.5.5	PT Gadingputra Samudra.....	39
Bab III	METODOLOGI PENYELESAIAN MASALAH.....	40
III.1	Model Konseptual .....	40
III.2	Sistematika Penelitian .....	46
III.2.1	Tahap Inisiasi .....	48
III.2.2	Tahap Identifikasi.....	48
III.2.3	Tahap Analisis dan Perancangan .....	49
III.2.4	Tahap Kesimpulan dan Saran.....	53
III.3	Metode Evaluasi.....	53
Bab IV	PERSIAPAN DAN IDENTIFIKASI.....	54
IV.1	Deskripsi Objek Penelitian.....	54
IV.2	Gambaran Objek Penelitian.....	54
IV.2.1	Visi dan Misi Perusahaan.....	54
IV.2.2	<i>Core Value</i> Perusahaan .....	55
IV.2.3	Struktur Organisasi.....	55
IV.3	<i>Key Performance Indicator</i> .....	57

IV.4	Rencana Jangka Panjang .....	57
IV.5	Kondisi Aplikasi <i>Existing</i> .....	58
IV.6	Proses Bisnis <i>Existing</i> Perusahaan .....	58
IV.7	Permasalahan <i>Existing</i> .....	59
Bab V	ANALISIS DAN PERANCANGAN .....	60
V.1	<i>Preliminary Phase</i> .....	60
V.1.1	<i>Principle Catalog</i> .....	60
V.2	<i>Architecture Vision</i> .....	65
V.2.1	<i>Stakeholder Map Matrix</i> .....	65
V.2.2	<i>Value Chain Diagram</i> .....	69
V.2.3	<i>Solution Concept Diagram</i> .....	69
V.2.4	<i>Goal Diagram</i> .....	71
V.2.5	<i>Goal Catalog</i> .....	72
V.2.6	<i>Requirement Catalog</i> .....	74
V.3	<i>Business Architecture</i> .....	77
V.3.1	<i>Business Architecture Requirement</i> .....	77
V.3.2	<i>Business Footprint Diagram</i> .....	78
V.3.3	<i>Goal/Objective/Requirement Catalog</i> .....	79
V.3.4	<i>Business Interaction Matrix</i> .....	81
V.3.5	<i>Functional Decomposition Diagram</i> .....	96
V.3.6	<i>Business Service/Function Catalog</i> .....	96
V.3.7	<i>Organization/Actor Catalog</i> .....	97
V.3.8	<i>Role Catalog</i> .....	97
V.3.9	<i>Actor/Business Process Matrix</i> .....	102
V.3.10	<i>Process/Event/Control/Product Catalog</i> .....	104
V.3.11	<i>Service Catalog</i> .....	107

V.3.12	<i>Organizational Process Diagram</i>	107
V.3.12.1	<i>Business Process Overview Diagram</i>	109
V.3.12.2	<i>Process Flow Diagram</i>	111
V.3.13	<i>Gap Analysis Business Architecture</i>	118
V.4	<i>Information System Architecture</i>	119
V.4.1	<i>Data Architecture</i>	120
V.4.1.1	<i>Data Architecture Requirement</i>	120
V.4.1.2	<i>Data Entity/Data Component Catalog</i>	120
V.4.1.3	<i>Data Entity/Business Function Matrix</i>	122
V.4.1.4	<i>Application/Data Matrix</i>	124
V.4.1.5	<i>Conceptual Data Diagram</i>	126
V.4.1.6	<i>Logical Data Diagram</i>	130
V.4.1.7	<i>Data Dissemination Diagram</i>	132
V.4.1.8	<i>Gap Analysis Data Architecture</i>	133
V.4.2	<i>Application Architecture</i>	136
V.4.2.1	<i>Application Architecture Requirement</i>	136
V.4.2.2	<i>Application Portfolio Catalog</i>	136
V.4.2.3	<i>Application Interface Catalog</i>	137
V.4.2.4	<i>Application/Function Matrix</i>	137
V.4.2.5	<i>Application/Role Matrix</i>	138
V.4.2.6	<i>Application Interaction Matrix</i>	139
V.4.2.7	<i>Application Communication Diagram</i>	139
V.4.2.8	<i>Application Use Case Diagram</i>	140
V.4.2.9	<i>Gap Analysis Application Architecture</i>	142
V.5	<i>Technology Architecture</i>	143
V.5.1	<i>Technology Architecture Requirement</i>	143

V.5.2	<i>Technology Standard Catalog</i> .....	143
V.5.3	<i>Technology Portfolio Catalog</i> .....	144
V.5.4	<i>Application/Technology Matrix</i> .....	146
V.5.5	<i>Environment and Location Diagram</i> .....	146
V.5.6	<i>Platform Decomposition Diagram</i> .....	147
V.5.7	<i>Gap Analysis Technology Architecture</i> .....	148
V.6	<i>Opportunities and Solution</i> .....	149
V.6.1	<i>Implementation Factor Assessment and Deduction Matrix</i> .....	149
V.6.2	<i>Consolidate Gaps, and Solution Matrix</i> .....	151
V.6.3	<i>Consolidate &amp; Reconcile Interoperability Requirement</i> .....	155
V.6.4	<i>Project Catalog</i> .....	156
V.6.5	<i>Project Context Diagram</i> .....	157
V.6.6	<i>Benefit Diagram</i> .....	158
V.7	<i>Migration Planning</i> .....	159
V.7.1	<i>Estimate Value and Risk</i> .....	159
V.7.2	<i>Valuasi Investasi Proyek TI</i> .....	160
V.7.3	<i>Business Value Assesment</i> .....	160
V.7.4	<i>Prioritas Pembangunan Proyek</i> .....	161
V.7.5	<i>IT Roadmap</i> .....	161
Bab VI	<b>KESIMPULAN DAN SARAN</b> .....	163
VI.1	<b>Kesimpulan</b> .....	163
VI.2	<b>Saran</b> .....	164
	<b>Daftar Pustaka</b> .....	165
	<b>Lampiran</b> .....	168