DAFTAR ISI

LEMBAR PENGESAHAN i
LEMBAR PERNYATAAN ORISINALITAS ii
ABSTRAK iii
ABSTRACT iv
KATA PENGANTAR v
DAFTAR ISI vi
DAFTAR GAMBAR x
DAFTAR TABEL xii
DAFTAR ISTILAH xiv
DAFTAR LAMPIRAN xv
Bab I Pendahuluan 1
I.1 Latar Belakang 1
I.2 Perumusan Masalah 3
I.3 Tujuan 3
I.4 Manfaat Penelitian 4
I.5 Ruang Lingkup 4
I.6 Sistematika Penulisan 5
Bab II Landasan Teori 6
II.1 Sistem Pemerintahan Berbasis Elektronik 6
II.2 *Enterprise Architecture* (EA) 8
II.3 Enterprise Architecture Framework 8
II.3.1 Zachman Framework 9
II.3.2 Federal Enterprise Architecture Framework (FEAF) 10
II.3.3 Gartner Framework 11
II.3.4 The Open Group Architecture Framework (TOGAF) 12
II.4 Perbandingan Kerangka Kerja EA 13
II.5 *The Open Group Architecture Framework* (TOGAF) 15
II.5.1 Domain Arsitektur 16
II.5.2 Fase Pengembangan TOGAF ADM 17
II.6 *Tools* Perancangan *Enterprise Architecture* 18
II.7 Government Service Bus (GSB) 19

II.8 Keamanan Sistem Informasi 21
II.8.1 Open Web Application Security Project 22
II.9 Infrastructure Architecture 22
Bab III METODOLOGI PENELITIAN 24
III.1 Model Konseptual 24
III.2 Sistematikan Penelitian 25
Bab IV PERSIAPAN DAN IDENTIFIKASI 32
IV.1 Deskripsi Objek Penelitian 32
IV.1.1 Gambaran Perusahaan 32
IV.1.2 Struktur Organisasi 33
IV.1.3 Visi & Misi 35
IV.1.4 Gambaran Kondisi Aplikasi Existing 35
IV.1.5 Proses Bisnis *Existing* 37
Bab V Analisis Dan Perancangan 38
V.1 Preliminary Phase 38
V.1.1 Principle Catalog 38
V.2 *Architecture Vision* 41
V.2.1 Stakeholder Map Matrix 41
V.2.2 Value Chain Diagram 45
V.2.3 Solution Concept Diagram 45
V.3 Business Architecture 46
V.3.1 *Business Architecture Requirement* 47
V.3.2 Business Footprint Diagram 47
V.3.3 Goal/Objective/Requirement Catalog 49
V.3.4 Business Interaction Matrix 50
V.3.5 Functional Decomposition Diagram 62
V.3.6 Business Service/Function Catalog 64
V.3.7 Organizational/Actor Catalog 66
V.3.8 Role Catalog 67
V.3.9 Actor/Role Matrix 70
V.3.10 Service Based Business 72
V.3.11 Process Flow Diagram 74

V.3.12 Gap Analysis Business Architecture 82
V.4 Information System Architecture 83
V.4.1 Data Architecture 83
V.4.1.1 Data Architecture Requirements 84
V.4.1.2 Data Entity/Data Component Catalog 84
V.4.1.3 Data Entity/Business Function Matrix 88
V.4.1.4 Application/Data Matrix 93
V.4.1.5 Conceptual Data Diagram 94
V.4.1.6 Logical Data Diagram 95
V.4.1.7 Data Dissemination Diagram 96
V.4.1.8 Database Security 97
V.4.1.9 Gap Analysis Data Architecture 98
V.4.2 Application Architecture 99
V.4.2.1 Application Architecture Requirement 100
V.4.2.2 Application Portofolio Catalog 100
V.4.2.3 Application Interface Catalog 101
V.4.2.4 Application/Function Matrix 103
V.4.2.5 Application/Role Matrix 105
V.4.2.6 Application Interaction Matrix 107
V.4.2.7 Application Communication Diagram 112
V.4.2.8 Application Use Case Diagram 112
V.4.2.9 Web Based Application Security 116
V.4.2.10 Gap Analysis Application Architecture 118
V.5 Technology Architecture 121
V.5.1 Technology Architecture Requirement 121
V.5.2 Technology Standard Catalog 121
V.5.3 Technology Portofolio Catalog 122
V.5.4 Application/Technology Matrix 125

V.5.5 Environment and Location Diagram 127
V.5.6 Platform Decomposition Diagram 128
V.5.7 Gap Analysis Technology Architecture 130
V.6 Opportunities and Solution 132
V.6.1 Implementation Factor Assesment and Deduction Matrix..... 132
V.6.2 Consolidate Gap, Solutions, and Dependencies Matrix..... 138
V.6.3 Project Context Diagram..... 143
V.6.4 Benefit Diagram 144
V.7 Migration Planning..... 146
V.7.1 Estimate Value and Risk 146
V.7.2 Business Value Assesment..... 147
V.7.3 IT Roadmap..... 148
Bab VI Kesimpulan dan Saran..... 150
VI.1 Kesimpulan 150
VI.2 Saran..... 150
DAFTAR PUSTAKA 152
LAMPIRAN..... 153