DAFTAR ISI

ABSTRAK i
ABSTRACT ii
LEMBAR PENGESAHAN iii
LEMBAR PERNYATAAN ORISINALITAS iv
LEMBAR PERSEMBAHAN v
KATA PENGANTAR vi
DAFTAR ISI vii
DAFTAR GAMBAR xii
DAFTAR TABEL xiv
DAFTAR LAMPIRAN xvi
DAFTAR ISTILAH xvii
BAB I PENDAHULUAN 1
I.1 Latar Belakang 1
I.2 Perumusan Masalah 2
I.3 Tujuan Penelitian 3
I.4 Batasan Penelitian 3
I.5 Manfaat Penelitian 3
BAB II TINJAUAN PUSTAKA 5
II.1 Enterprise Architecture 5
II.2 Framework Enterprise Architecture 5
II.3 Perbandingan Framework Enterprise Architecture 6
II.3.1 The Open Group Architecture Framework (TOGAF) 7
II.3.2 Zachman Framework 10
II.3.3 Federal Architecture Enterprise Framework (FEAF) 11
II.4 Alasan Pemilihan Metode 12

II.5 Validasi Penerapan TOGAF sebagai Framework Enterprise Architecture 13
II.6 Pemetaan Artefak TOGAF 9.2 dengan TOGAF 10 15
II.7 Penelitian Terdahulu 19
BAB III METODOLOGI PENELITIAN 24
III.1 Model Konseptual 24
III.2 Sistematika Penyelesaian Masalah 25
III.3 Pengumpulan Data 35
III.4 Pengolahan Data atau Pengembangan Produk / Artifak 37
III.5 Metode Evaluasi 40
III.6 Alasan Pemilihan Metode 40
BAB IV IDENTIFIKASI DAN PERSIAPAN 42
IV.1 Identifikasi Objek Penelitian 42
IV.1.1 Profil Perusahaan 42
IV.1.2 Visi dan Misi Perusahaan 42
IV.1.3 Tujuan Perusahaan 43
IV.1.4 Nilai Perusahaan 43
IV.1.5 Key Performance Indicator 43
IV.1.6 Rencana Jangka Panjang 47
IV.1.7 Struktur Organisasi 49
IV.2 Kondisi Aplikasi Existing 50
IV.3 Proses Bisnis Existing 51
IV.4 Permasalahan Existing Perusahaan 52
BAB V IMPLEMENTASI DAN PENGUJIAN 54
V.1 Preliminary Phase 54
V.1.1 Principle Catalog 54

V.2 Architecture Vision 61
V.2.1 Stakeholder Catalog 61
V.2.2 Value Chain Diagram 68
V.2.3 Solution Concept Diagram 70
V.2.4 Business Model Diagram 72
V.2.5 Business Capability Map 72
V.2.6 Requirement Catalog 74
V.3 Business Architecture 75
V.3.1 Organization/ Actor Catalog 75
V.3.2 Role Catalog 76
V.3.3 Driver/ Goal/ Objective & Requirement Catalog 89
V.3.4 Business Service/Function Catalog 92
V.3.5 Process/Event/Control/ Product Catalog 94
V.3.6 Contract/Measure Catalog 98
V.3.7 Business Interaction Matrix 102
V.3.8 Actor/ Role Matrix 123
V.3.9 Value Stream/Capability Diagram 124
V.3.10 Strategy/Capability Matrix 125
V.3.11 Capability/Organization Matrix 128
V.3.12 Business Footprint Diagram 132
V.3.13 Functional Decomposition Diagram 133
V.3.14 Goal/Objective/Business Service Diagram 134
V.3.15 Process Flow Diagram Existing 135
V.3.16 Process Flow Diagram Targeting 138
V.3.17 Gap Analysis Business Architecture 142
V.4 Information System Architecture 145

V.4.1 Data Architecture 146
V.4.1.1 Data Architecture Requirement 146
V.4.1.2 Data Entity/ Data Component Catalog 146
V.4.1.3 Data Entity/ Business Function Matrix 151
V.4.1.4 Application/ Data Matrix 156
V.4.1.5 Conceptual Data Diagram 159
V.4.1.6 Logical Data Diagram 162
V.4.1.7 Data Dissemination Diagram 165
V.4.1.8 Gap Analysis Data Architecture 166
V.4.2 Application Architecture 172
V.4.2.1 Application Architecture Requirement 173
V.4.2.2 Application Portfolio Catalog 173
V.4.2.3 Interface Catalog 174
V.4.2.4 Application/ Function Matrix 178
V.4.2.5 Application Interaction Matrix 179
V.4.2.6 Application Communication Diagram 181
V.4.2.7 Application Use Case Diagram 182
V.4.2.8 Gap Analysis Application Architecture 184
V.5 Technology Architecture 187
V.5.1 Technology Architecture Requirement 187
V.5.2 Technology Standard Catalog 188
V.5.3 Technology Portfolio Catalog 193
V.5.4 Application/ Technology Matrix 199
V.5.5 Environment and Location Diagram 202
V.5.6 Platform Decomposition Diagram 203
V.5.7 Gap Analysis Technology Architecture 204

V.6 Opportunities and Solutions 208
V.6.1 Consolidate Gaps and Solution Matrix 209
V.6.2 Benefit Diagram 215
V.6.3 Project Context Diagram 216
V.6.4 IT Roadmap 217
BAB VI KESIMPULAN DAN SARAN 224
VI.1 Kesimpulan 224
VI.2 Saran 224
DAFTAR PUSTAKA 226
LAMPIRAN 230