

DAFTAR ISI

| | |
|---|------|
| HALAMAN JUDUL | i |
| LEMBAR PENGESAHAN | ii |
| LEMBAR PERNYATAAN..... | iii |
| KATA PENGANTAR | iv |
| DAFTAR ISI..... | vi |
| DAFTAR TABEL..... | ix |
| DAFTAR GAMBAR..... | x |
| DAFTAR LAMPIRAN..... | xi |
| INTISARI | xii |
| <i>ABSTRACT</i> | xiii |
| BAB I..... | 1 |
| 1 PENDAHULUAN | 1 |
| 1.1 Latar Belakang | 1 |
| 1.2 Rumusan Masalah | 6 |
| 1.3 Pertanyaan Penelitian | 7 |
| 1.4 Tujuan Penelitian..... | 8 |
| 1.5 Manfaat Penelitian..... | 8 |
| 1.6 Lingkup Penelitian | 8 |
| 1.7 Sistematika Laporan Penelitian | 9 |
| BAB II..... | 11 |
| 2 LANDASAN TEORI..... | 11 |
| 2.1 <i>Information Technology Service Management (ITSM)</i> | 11 |
| 2.2 <i>Maturity Level</i> | 12 |

| | | |
|---------|---|----|
| 2.3 | <i>Information Technology Infrastructure Library (ITIL)</i> | 15 |
| 2.3.1 | <i>Service Strategy</i> | 20 |
| 2.3.2 | <i>Service Design</i> | 24 |
| 2.3.3 | <i>Service Transition</i> | 30 |
| 2.3.4 | <i>Service Operation</i> | 35 |
| 2.3.5 | <i>Continual Service Improvement (CSI)</i> | 39 |
| 2.4 | <i>Service Level Agreement (SLA)</i> | 47 |
| 2.5 | <i>Fishbone Diagram</i> | 48 |
| 2.6 | Kajian Penelitian Terdahulu | 50 |
| 2.7 | Kerangka Penelitian | 51 |
| BAB III | | 53 |
| 3 | METODE PENELITIAN | 53 |
| 3.1 | Desain Penelitian | 53 |
| 3.2 | Metode Pengumpulan Data | 54 |
| 3.2.1 | Sumber Data..... | 54 |
| 3.2.2 | Pengumpulan Data | 55 |
| 3.3 | Instrumen Penelitian..... | 60 |
| 3.4 | Metode Analisis Data | 61 |
| 3.5 | Profil PT PINS Indonesia | 61 |
| BAB IV | | 64 |
| 4 | HASIL PENELITIAN DAN PEMBAHASAN | 64 |
| 4.1 | Deskripsi Data | 64 |
| 4.2.1 | Hasil Wawancara | 65 |
| 4.2.2 | Hasil pengamatan | 69 |
| 4.2 | Pembahasan | 70 |

| | | |
|----------------------|----------------------------|----|
| 4.2.1 | <i>Gap Analysis</i> | 70 |
| 4.2.3 | Perbaikan dan Diskusi..... | 77 |
| BAB V | | 90 |
| SIMPULAN | | 90 |
| 5.1 | Simpulan..... | 90 |
| 5.2 | Implikasi | 92 |
| 5.3 | Keterbatasan | 93 |
| 5.4 | Saran | 94 |
| DAFTAR PUSTAKA | | 96 |

DAFTAR TABEL

| | |
|--|----|
| Tabel 1.1 Contoh Paket Service Level Agreement | 4 |
| Tabel 1.2 Performance SLA 2019..... | 6 |
| Tabel 2.1 Kajian Penelitian Terdahulu..... | 50 |
| Tabel 3.1 Narasumber Wawancara | 56 |
| Tabel 3.2 Tingkat Kematangan berdasarkan Kriteria | 58 |
| Tabel 3.3 Sejarah Perkembangan Perusahaan..... | 63 |
| Tabel 4.1 Kriteria Pengukuran Tingkat Kematangan | 65 |
| Tabel 4.2 Nilai Proyek Corrective Maintenance Direktorat Operasional | 80 |

DAFTAR GAMBAR

| | |
|---|----|
| Gambar 1.1 Pemakaian IoT dalam Bisnis Perusahaan di Indonesia..... | 2 |
| Gambar 2.1 IT Infrastructure Library V3 Service Lifecycle | 18 |
| Gambar 2.2 IT Infrastructure Library V3 Integration Service Lifecycle..... | 19 |
| Gambar 2.3 Ruang Lingkup Change and Release Management..... | 32 |
| Gambar 2.4 Continual Service Improvement Model | 41 |
| Gambar 2.5 Tujuh Tahap Proses Perbaikan..... | 41 |
| Gambar 2.6 Fishbone Diagram | 49 |
| Gambar 2.7 Kerangka Penelitian | 52 |
| Gambar 3.1 Struktur Organisasi PT PINS Indonesia..... | 62 |
| Gambar 4.1 Hasil Maturity Level pada Service Operation..... | 68 |
| Gambar 4.2 Proses Penanganan Gangguan di Helpdesk NOC | 69 |
| Gambar 4.3 Maturity Overall pada Service Operation | 70 |
| Gambar 4.4 Maturity per-proses pada Service Operation..... | 71 |
| Gambar 4.5 Analisis Akar Permasalahan Insiden dan Masalah Menggunakan Fishbone Diagram | 78 |
| Gambar 4.6 Solver/Teknisi Terkait dengan Corrective Maintenance Direktorat Operasional | 79 |
| Gambar 4.7 Proses Bisnis Corrective Maintenance PT PINS..... | 80 |
| Gambar 4.8 Proses Bisnis Change Request PT PINS | 81 |
| Gambar 4.9 Proses Bisnis Pergantian part PT PINS..... | 82 |
| Gambar 4.10 Proses Bisnis Risk and Quality Management PT PINS | 84 |
| Gambar 4.11 Tampilan Peringatan Aplikasi Solarwinds PT PINS..... | 85 |
| Gambar 4.12 Tampilan Integrasi Database NOC PT PINS | 86 |
| Gambar 4.13 Tampilan Informasi Nodes Gangguan pada NOC PT PINS | 87 |
| Gambar 4.14 Tampilan informasi Aplikasi trouble ticket PT PINS | 89 |

DAFTAR LAMPIRAN

| | |
|---|-----|
| LAMPIRAN I Tabel 4.2 Kondisi Incident Management Pada Layanan Gangguan PT PINS Direktorat Operasional Saat ini..... | 100 |
| LAMPIRAN II Tabel 4.3 Kondisi Problem Management Pada Layanan Gangguan PT PINS Direktorat Operasional Saat ini..... | 101 |
| LAMPIRAN III Tabel 4.4 Analisis Kesenjangan Kondisi Incident Management Pada PT PINS Direktorat Operasional..... | 102 |
| LAMPIRAN IV Tabel 4.5 Analisis Kesenjangan Kondisi Problem Management Pada PT PINS Direktorat Operasional..... | 102 |
| LAMPIRAN V Transkrip Wawancara..... | 103 |
| LAMPIRAN VI Panduan Wawancara Dan Diskusi Pengisian Data (Penilaian Kondisi Direktorat Operasional)..... | 107 |
| LAMPIRAN VII Personel Layanan Gangguan Direktorat Operasional..... | 109 |
| LAMPIRAN VIII Gagal SLA..... | 111 |
| LAMPIRAN IX Tugas Pokok, Wewenang, Dan Tanggung Jawab Karyawan PT PINS..... | 119 |