

## **ABSTRAK**

PT. Bank Central Asia merupakan sebuah perusahaan milik swasta yang bergerak dalam bidang perbankan. Saat ini Bank Central Asia sudah menggunakan sistem informasi yang mendukung kebutuhan bisnis perusahaan. Laporan penelitian yang berjudul Analisis Proses Bisnis Dan Audit Sistem Informasi Menggunakan Cobit 4.1, memiliki pokok dan tujuan pembahasan yaitu untuk penilaian dukungan teknologi informasi yang ada terhadap kebutuhan bisnis perusahaan dalam menangani transaksi nasabah yang bersifat finansial dan non-finansial, cara perusahaan dalam melakukan pelatihan dan cara perusahaan dalam menjaga keamanan infrastruktur dan data perusahaan. Teori yang digunakan adalah teori mengenai system informasi, audit sistem informasi, dan teori umum mengenai COBIT versi 4.1 serta teori lainnya yang mendukung. Metode penelitian yang digunakan adalah observasi perusahaan dan melakukan wawancara.

Kata Kunci : Perusahaan, sistem informasi , audit, COBIT 4.1.

## ABSTRACT

*PT. Bank Central Asia is a privately owned company engaged in banking. Currently, Bank Central Asia are already using information systems that support the business needs of the company. The research report titled Business Processes Analysis and Audit of Information Systems Using COBIT 4.1, has a principal purpose of the discussion is to assess existing information technology support to the business needs of the company in handling customer transactions that are financially and non-financially, the way companies conduct training and how companies in the infrastructure and security of corporate data. The theory used are the theory of information systems, information systems auditing, and general theory of COBIT version 4.1 as well as other theories that support. The research method used are company observation and by conducting interviews.*

*Key words : Companies, Information systems, audit, COBIT 4.1.*

# DAFTAR ISI

|                                                                                        |      |
|----------------------------------------------------------------------------------------|------|
| PRAKATA .....                                                                          | iii  |
| ABSTRAK .....                                                                          | iv   |
| ABSTRACT .....                                                                         | v    |
| DAFTAR ISI .....                                                                       | vi   |
| DAFTAR GAMBAR .....                                                                    | viii |
| DAFTAR TABEL .....                                                                     | ix   |
| DAFTAR LAMPIRAN .....                                                                  | x    |
| DAFTAR SINGKATAN.....                                                                  | xi   |
| BAB I PENDAHULUAN .....                                                                | 1    |
| 1.1    Latar Belakang Masalah .....                                                    | 1    |
| 1.2    Rumusan Masalah .....                                                           | 2    |
| 1.3    Tujuan Pembahasan .....                                                         | 3    |
| 1.4    Ruang Lingkup Kajian .....                                                      | 3    |
| 1.5    Sumber Data .....                                                               | 6    |
| 1.6    Sistematika Penyajian.....                                                      | 7    |
| BAB II KAJIAN TEORI .....                                                              | 8    |
| 2.1    Proses Bisnis.....                                                              | 8    |
| 2.2 <i>Flowchart</i> .....                                                             | 9    |
| 2.2.1    Pengertian <i>Flowchart</i> .....                                             | 9    |
| 2.2.2    Jenis <i>Flowchart</i> .....                                                  | 9    |
| 2.2.3    Simbol – Simbol <i>Flowchart</i> .....                                        | 11   |
| 2.3    Audit Teknologi Informasi.....                                                  | 16   |
| 2.4    COBIT 4.1.....                                                                  | 17   |
| 2.4.1    Kerangka Kerja COBIT .....                                                    | 19   |
| 2.4.2    Domain COBIT.....                                                             | 20   |
| 2.5    Domain dan <i>Control Objective</i> yang dipilih dalam Laporan Tugas Akhir..... | 24   |
| 2.5.1 <i>AI2 Acquire and Maintain Application Software</i> .....                       | 25   |

|                                     |                                                            |    |
|-------------------------------------|------------------------------------------------------------|----|
| 2.5.2                               | <i>AI4 Enable and Operation Use</i> .....                  | 25 |
| 2.5.3                               | <i>DS7 Educate and Train Users</i> .....                   | 26 |
| 2.5.4                               | <i>DS10 Manage Problems</i> .....                          | 27 |
| 2.5.5                               | <i>DS11 Manage Data</i> .....                              | 28 |
| 2.5.6                               | <i>DS13 Manage Operation</i> .....                         | 29 |
| 2.6                                 | <i>Maturity Model</i> .....                                | 30 |
| 2.6.1                               | <i>Maturity Model AI2</i> .....                            | 31 |
| 2.6.2                               | <i>Maturity Model AI4</i> .....                            | 33 |
| 2.6.3                               | <i>Maturity Model DS7</i> .....                            | 35 |
| 2.6.4                               | <i>Maturity Model DS10</i> .....                           | 37 |
| 2.6.5                               | <i>Maturity Model DS11</i> .....                           | 39 |
| 2.6.6                               | <i>Maturity Model DS13</i> .....                           | 40 |
| BAB III ANALISIS DAN EVALUASI ..... |                                                            | 43 |
| 3.1                                 | Latar Belakang Perusahaan .....                            | 43 |
| 3.2                                 | <i>Integrated Deposit System (IDS)</i> .....               | 44 |
| 3.3                                 | Proses Bisnis dan Flowchart .....                          | 45 |
| 3.3.1                               | Proses Bisnis Pembuatan Buku Tabungan .....                | 45 |
| 3.3.2                               | Proses Bisnis Transaksi Setoran .....                      | 48 |
| 3.3.3                               | Proses Bisnis Transaksi Tarikan .....                      | 50 |
| 3.4                                 | Analisis Menggunakan COBIT 4.1 .....                       | 56 |
| 3.4.1                               | <i>AI2 Acquire and Maintain Application Software</i> ..... | 56 |
| 3.4.2                               | <i>AI4 Enable and Operation Use</i> .....                  | 59 |
| 3.4.3                               | <i>DS7 Educate and Train Users</i> .....                   | 63 |
| 3.4.4                               | <i>DS10 Manage Problems</i> .....                          | 67 |
| 3.4.5                               | <i>DS11 Manage Data</i> .....                              | 69 |
| 3.4.6                               | <i>DS13 Manage Operation</i> .....                         | 71 |
| BAB IV SIMPULAN DAN SARAN .....     |                                                            | 73 |
| 4.1                                 | Simpulan .....                                             | 73 |
| 4.2                                 | Saran .....                                                | 74 |
| DAFTAR PUSTAKA .....                |                                                            | xi |

## DAFTAR GAMBAR

|                                                                                            |    |
|--------------------------------------------------------------------------------------------|----|
| Gambar 1 Contoh Sistem <i>Flowchart</i> .....                                              | 10 |
| Gambar 2 Contoh <i>Conceptual Flowchart</i> dan <i>Detail Flowchart</i> .....              | 11 |
| Gambar 3 Kerangka Kerja COBIT .....                                                        | 23 |
| Gambar 4 Screenshoot sistem IDS .....                                                      | 45 |
| Gambar 5 <i>Flowchart</i> Proses Bisnis Pembuatan Buku Tabungan .....                      | 47 |
| Gambar 6 <i>Flowchart</i> Proses Bisnis Transaksi Setoran .....                            | 49 |
| Gambar 7 <i>Flowchart</i> Proses Bisnis Transaksi Tarikan Melalui Tabungan .....           | 51 |
| Gambar 8 <i>Flowchart</i> Proses Bisnis Transaksi Tarikan Melalui Cek .....                | 53 |
| Gambar 9 <i>Flowchart</i> Proses Bisnis Transaksi Tarikan Melalui <i>Bilyet Giro</i> ..... | 55 |

## DAFTAR TABEL

|                                             |    |
|---------------------------------------------|----|
| Tabel I Simbol <i>Flow Direction</i> .....  | 12 |
| Tabel II Simbol <i>Processing</i> .....     | 13 |
| Tabel III <i>Input / Output</i> Simbol..... | 14 |

## DAFTAR LAMPIRAN

|                                                                                  |     |
|----------------------------------------------------------------------------------|-----|
| LAMPIRAN A HASIL WAWANCARA .....                                                 | A.1 |
| LAMPIRAN B KEBIJAKAN PENGAMANAN INFORMASI.....                                   | B.1 |
| LAMPIRAN C KEWAJIBAN/TANGGUNG JAWAB KARYAWAN DALAM<br>PENGAMANAN INFORMASI ..... | C.1 |
| LAMPIRAN D <i>FIELD</i> MENU DALAM MELAKUKAN <i>MAINTENANCE</i> .....            | D.1 |
| LAMPIRAN E FOTO <i>FILE BACKUP</i> .....                                         | E.1 |
| LAMPIRAN F PEDOMAN STANDARDISASI WEWENANG PEGAWAI .....                          | F.1 |
| LAMPIRAN G CONTOH JADWAL TRAINING SETIAP DIVISI .....                            | G.1 |
| LAMPIRAN H CONTOH JADWAL PELATIHAN <i>END USERS</i> .....                        | H.1 |
| LAMPIRAN I CONTOH JADWAL PELATIHAN IT .....                                      | I.1 |
| LAMPIRAN J MATERI PEMERIKSAAN <i>VALIDASI</i> .....                              | J.1 |
| LAMPIRAN K KURIKULUM PELATIHAN .....                                             | K.1 |
| LAMPIRAN L MATERI PELATIHAN <i>TELLER</i> .....                                  | L.1 |
| LAMPIRAN M <i>SCREENSHOOT</i> PERSYARATAN LAMARAN .....                          | M.1 |
| LAMPIRAN N FOTO RUANGAN <i>SERVER</i> .....                                      | N.1 |
| LAMPIRAN O MATERI OPERASI SISTEM .....                                           | O.1 |
| LAMPIRAN P FOTO GENSET .....                                                     | P.1 |
| LAMPIRAN Q AGENDA PELATIHAN <i>TELLER</i> .....                                  | Q.1 |
| LAMPIRAN R PROSEDUR PENANGGULANGAN RESIKO DARURAT PADA BCP .                     | R.1 |
| LAMPIRAN S PROSEDUR KEBIJAKAN UMUM <i>SERVER</i> .....                           | S.1 |
| LAMPIRAN T KEBIJAKAN PROSEDUR <i>BACKUP</i> .....                                | T.1 |
| LAMPIRAN U PROSEDUR KELANGSUNGAN USAHA BILA TERJADI GANGGUAN /<br>MASALAH .....  | U.1 |
| LAMPIRAN V FOTO <i>ANTIVIRUS</i> .....                                           | V.1 |
| LAMPIRAN W FOTO MENU TRANSAKSI FINANSIAL.....                                    | W.1 |
| LAMPIRAN X <i>SCREENSHOOT SIGN ON</i> PADA AWAL HARI .....                       | X.1 |