Technical Spesification Document (TSD)

Tool Monitoring & Rekonsiliasi Transaksi RTGS

Applied for:



Disusun: 21 January 2019





Secrecy

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Contents

| Secre | ecy | . ii |
|--------|---|------|
| Notifi | cation | . ii |
| Copy | right | . ii |
| Trade | emark | . ii |
| | espondence address | |
| | desk Support | |
| • | mentation Revision & Approval | |
| | ents. | |
| | | |
| 1. | Executive Summary | |
| 2. | Objectives and Benefits | |
| 3. | Scope of Work | |
| 4. | User Aplikasi | |
| 5. | Architecture | |
| | 5.1System Configuration | |
| | 5.2Work Flow Tool Monitoring & Rekonsiliasi Transaksi RTGS | |
| | 5.3Alur Proses Outgoing dan Incoming RTGS Gen2 | 6 |
| | 5.4Rekonsiliasi Incoming dan Outgoing | 6 |
| | 5.5Monitoring SLA | 8 |
| | 5.6Report Transaksi | 8 |
| | 5.7Format Report Transaksi | 9 |
| | 5.8Format Report SLA | 11 |
| | 5.9Format Report Aktivitas Transaksi RTGS Outgoing dan Incoming | 11 |
| 6 | System Requirements | 13 |
| | 6.1Software Requirement | 13 |
| | 6.2Hardware Requirement | |
| 7 | Struktur File | 14 |
| | 7.1Outgoing Payment | 14 |
| | 7.2List TTC/Mapping TRN | |
| | 7.3General Message Spesification | |
| | 7.4Payment Processing Schema | |
| | 7.5Transfer - MT102 or MT103 or MT202 | |
| | 7.6Validation error notification - MTn96 | |
| | 7.7Debit confirmation (optional) - MT900 | 23 |
| | 7.8Transfer - MT102 or MT103 or MT202 | |
| | 7.9Credit confirmation (optional) - MT910 | |
| | 7.10Cancellation notification - MTn96 | |
| | 7.11Payment Processing Schema | |
| | 7.12 Format Member Settlement | |



1. Executive Summary

Sistem Bank Indonesia - *Real Time Gross Settlement* (BI-RTGS) merupakan salah satu aplikasi yang digunakan untuk mendukung fungsi bisnis kritikal. Adapun fungsi bisnis kritikal yang dimaksud karena BI-RTGS termasuk aplikasi yang memproses transaksi pembayaran yang bersifat *High Value Payment System* (HVPS) atau transaksi yang bernilai besar yaitu transaksi Rp.100 juta keatas dan masuk ke dalam kategori *Sistemically Important Payment System* (SIPS).

Sistem BI-RTGS memberikan banyak manfaat, selain berfungsi meningkatkan kepastian penyelesaian akhir (*settlement finality*) setiap transaksi pembayaran, yang berarti mengurangi risiko penyelesaian akhir (*minimizing settlement risk*), BI RTGS juga menjadi sarana transfer dana antar-bank yang praktis, cepat, efisien, aman dan handal.

Fungsi Bank Indonesia sebagai otoritas Sistem Pembayaran termasuk berperan sebagai pembuat ketentuan (*Regulator*) dan pengawas (*Overseer*) BI-RTGS. Dalam menjalankan peran sebagai regulator, BI menetapkan landasan hukum yang kuat untuk penerapan Sistem BI-RTGS dan menentukan peran dan tanggung jawab penyelenggara dan peserta Sistem BI-RTGS.

Oleh karena itu, sistem BI-RTGS dituntut untuk memiliki tingkat kecepatan, keamanan dan kehandalan yang tinggi, dimana penyelenggaraannya selalu didasarkan pada pemenuhan 10 *Core Principlies* yang ditetapkan oleh *Bank For International Settlement* dimana salah satunya mensyaratkan kehandalan operasional dan ketersediaan *Contingency Arrangement.*

Dengan diimplementasikannya Sistem BI-RTGS Generasi II, bank peserta BI-RTGS diharapkan mampu menyesuaikan perubahan yang berdampak pada bisnis proses ataupun sistem internal. Salah satu penyesuaian yang harus dilakukan oleh bank peserta BI-RTGS yaitu adanya perubahan *Service Level Agreement* (SLA) yang sebelumnya 2 (dua) jam menjadi 1 (satu) jam.

Sesuai aturan dalam perlindungan nasabah, jika transaksi BI-RTGS tidak dijalankan berdasarkan SLA, maka peserta wajib memberikan biaya kompensasi kepada nasabah. Untuk menghindari biaya kompensasi dan reputasi, bank peserta harus mampu memonitor dan memastikan bahwa transaksi BI-RTGS dapat dijalankan sesuai dengan SLA yang sudah ditentukan.



Untuk mengakomodasi hal tersebut diatas, maka dibutuhkan monitoring, rekonsiliasi dan pemenuhan report (harian, mingguan dan bulanan) yang harus sesuai dengan kebutuhan internal Bank. Dengan memahami kebutuhan tersebut, kami PT. Sangkar Sari Teknologi sebagai perusahaan yang berpengalaman di bidang aplikasi perbankan khususnya Aplikasi BI-RTGS, menawarkan modul aplikasi Tool Monitoring & Rekonsiliasi Transaksi RTGS berbasis web yang mampu memenuhi kebutuhan tersebut.

Aplikasi Tool Monitoring & Rekonsiliasi Transaksi RTGS merupakan sistem *middleware* yang membantu bank memproses data BI-RTGS dari RTGS Central Node (RCN) dan dari sistem internal bank. Dengan adanya aplikasi Tool Monitoring & Rekonsiliasi Transaksi RTGS bank peserta mampu mengakomodir perubahan pada BI-RTGS Generasi II.

2. Objectives and Benefits

Adapun manfaat dan tujuan diimplementasikannya Aplikasi Tool Monitoring & Rekonsiliasi Transaksi RTGS adalah:

- SLA penyelesaian transaksi dapat dimonitor.
- Sebagai perantara antara core banking dengan aplikasi BI-RTGS (RTGS Participant Platform) yang berfungsi sebagai dual control.
- Otomasi proses monitoring dan rekonsiliasi sehingga dapat mengurangi penggunaan sumber daya manusia.
- Mengurangi risiko potential loss yang diakibatkan oleh pembayaran biaya kompensasi.
- Meningkatkan efisiensi dan efektifitas pengawasan dan monitoring.
- Rekonsiliasi dapat dilakukan secara real-time sehingga mampu mengurangi potensi kerugian jika terjadi double kredit atau double transfer, data tidak terkirim atau data pending.
- Memenuhi kebutuhan report-report secara harian, mingguan dan bulanan sesuai dengan kebutuhan internal Bank.



3. Scope of Work

Ruang lingkup pekerjaan pengembangan Aplikasi Tool Monitoring & Rekonsiliasi Transaksi RTGS adalah :

1. Outgoing BI-RTGS (Transfer dana keluar)

- a. Interface download data transaksi RTGS dari host/core banking.
- b. Interface download data transaksi JITU.
- c. Interface download data Swift.
- d. Interface download data member statement.
- e. Laporan, Monitoring & Dasboard.
- f. Otomasi rekonsiliasi.

2. Incoming BI-RTGS (Transfer dana masuk)

- a. Interface download data transaksi RTGS dari RCN (RTGS Central Node).
- b. Interface download data JITU.
- c. Interface download Data core banking.
- d. Laporan, Monitoring & Dasboard.
- e. Otomasi rekonsiliasi.

4. User Aplikasi

Pengguna aplikasi Tool Monitoring & Rekonsiliasi Transaksi RTGS adalah Petugas RTGS di Kantor Pusat bank. Pengguna akan diatur berdasarkan hak akses (disesuaikan dengan kebutuhan bank). *Role* atau kelompok pengguna dibagi berdasarkan fungsi operasional sebagai berikut:

A. Admin System

Bertugas untuk mengelola aplikasi, seperti melakukan perubahan konfigurasi aplikasi, mengelola *user id, monitoring logging*.

B. Inputer

Bertugas untuk fungsi operasional sehari-hari, seperti menginput, mengedit/amend, reject repair transaksi.

C. Approval

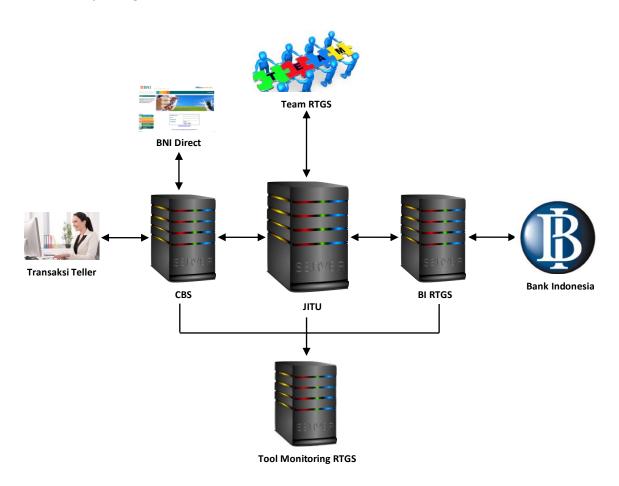
Bertugas untuk fungsi operasional sehari-hari, seperti melakukan validasi/otorisasi, *monitoring* dan *reporting*.



5. Architecture

5.1 System Configuration

Konfigurasi sistem untuk Tool Monitoring & Rekonsiliasi Transaksi RTGS dapat dilihat pada gambar dibawah ini :



5.2 Work Flow Tool Monitoring & Rekonsiliasi Transaksi RTGS

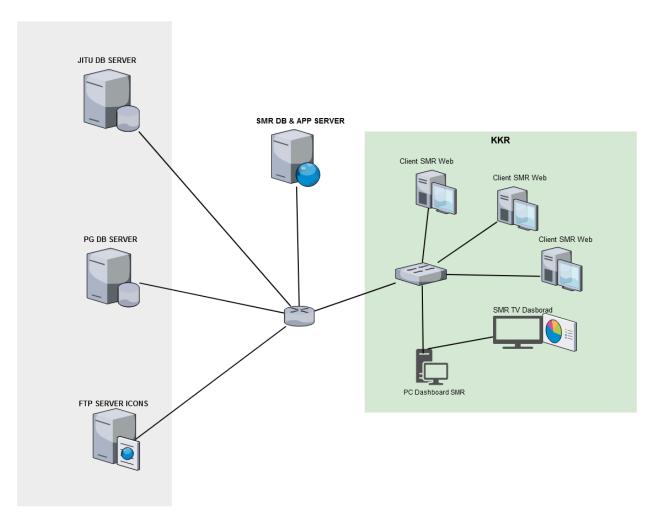
- Data transaksi yang diproses pada host/core banking adalah data transaksi outgoing RTGS, sedangkan data pada RPP (RTGS Participant Platform) adalah data incoming RTGS.
- 2. Host | Core banking melakukan generate data transaksi RTGS.
- 3. Tool Monitoring & Rekonsiliasi Transaksi RTGS melakukan proses *download* data dari *host | core banking* untuk *outgoing* dan RPP (RTGS Participant Platform) untuk *incoming*.
- 4. Ketika proses download berjalan, Tool Monitoring & Rekonsiliasi Transaksi RTGS melakukan pengecekan nomor referensi untuk mencegah terjadinya *double* transmit, pengecekan tanggal dan waktu modifikasi file yang terbaru untuk



- kebutuhan perhitungan waktu SLA, selain itu juga pengecekan tanggal dan waktu modifikasi file yang terbaru tidak memberatkan atau mengganggu sistem lain yang sedang berjalan.
- 5. Apabila terdapat data transaksi dengan nomor referensi yang sama, maka selanjutnya data transaksi tersebut masuk dalam kriteria data 'Duplicate'.
- 6. Berdasarkan data transaksi yang diterima dari *core banking* dan RPP, aplikasi Tool Monitoring & Rekonsiliasi Transaksi RTGS menampilkan laporan-laporan, dasboard maupun proses rekonsiliasi secara *real time*.

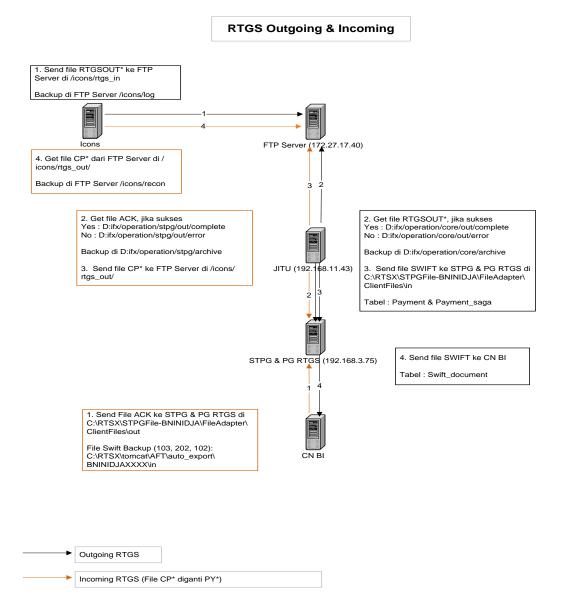
5.3 Topology

SMR TOPOLOGY





5.4 Alur Proses Outgoing dan Incoming RTGS Gen2



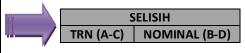
5.5 Rekonsiliasi Incoming dan Outgoing

Tool Monitoring & Rekonsiliasi Transaksi RTGS akan melakukan proses rekonsiliasi antara data Bank Indonesia – Interface JITU dan data Core Banking System BNI – Interface JITU yang dilakukan pada akhir hari.

a. Format Rekonsiliasi

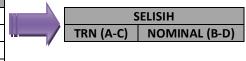
Format rekonsiliasi yang terdapat pada Tool Monitoring & Rekonsiliasi Transaksi RTGS dapat dilihat pada tabel dibawah ini :

| BANI | (INDONESIA | INTERFACE JITU | | |
|---------|----------------|----------------|----------------|--|
| TRN (A) | NOMINAL (B) | TRN (C) | NOMINAL (D) | |
| 000001 | 100.000.000,00 | 000001 | 100.000.000,00 | |
| 000002 | 200.000.000,00 | 000002 | 200.000.000,00 | |
| 000003 | 300.000.000,00 | 000003 | 300.000.000,00 | |
| 3 | 600.000.000,00 | 3 | 600.000.000,00 | |





| CORE BA | NKING SYSTEM | INTERFACE JITU | | |
|---------|----------------|----------------|----------------|--|
| TRN (A) | NOMINAL (B) | TRN (C) | NOMINAL (D) | |
| 000001 | 100.000.000,00 | 000001 | 100.000.000,00 | |
| 000002 | 200.000.000,00 | 000002 | 200.000.000,00 | |
| 000003 | 300.000.000,00 | 000003 | 300.000.000,00 | |
| 3 | 600.000.000,00 | 3 | 600.000.000,00 | |



b. Laporan Hasil Rekonsiliasi

Laporan hasil rekonsiliasi yang terdapat pada Tool Monitoring & Rekonsiliasi Transaksi RTGS dapat dilihat pada tabel dibawah ini :

| | BANK INDONESIA | INTERFACE (JITU) | SELISIH |
|---------|-----------------|------------------|---------|
| NOMINAL | TOTAL TRANSAKSI | TOTAL TRANSAKSI | - |
| SLIP | JUMLAH SLIP | JUMLAH SLIP | - |

| | CORE BANKING | INTERFACE (JITU) | SELISIH |
|---------|-----------------|------------------|---------|
| NOMINAL | TOTAL TRANSAKSI | TOTAL TRANSAKSI | - |
| SLIP | JUMLAH SLIP | JUMLAH SLIP | - |

c. Rekonsiliasi Data Pembanding

| | Data Pembanding 1 | | | Data Pembanding 2 | | |
|----------|--|----------|-----------------------|---|----------|-----------------|
| | Table Name | Database | Script Filename | Table Name | Database | Script Filename |
| Outgoing | File Outgoing Icons(RTGSOUT*) => Table bni_rtgs_outgoing | Lokal | BNI_RTGS_OUTGOING.sql | Table payment Jitu | Jitu | PAYMENT.sql |
| | File Outgoing Icons(RTGSOUT*) => Table bni_rtgs_outgoing | Lokal | BNI_RTGS_OUTGOING.sql | Upload File Member Statement => Table bni_rtgs_bi | Lokal | BNI_RTGS_BI.sql |
| | | | | | | |
| Incoming | File Incoming Icons(PY*) => Table bni_icons | Lokal | BNI_ICONS.sql | Table payment Jitu | Jitu | PAYMENT.sql |
| | File Incoming Icons(PY*) => Table bni_icons | Lokal | BNI_ICONS.sql | Upload File Member Statement => Table bni_rtgs_bi | Lokal | BNI_RTGS_BI.sql |
| | Table swift_document PG BI (MT : 102, 103, 202) | PG | SWIFT_DOCUMENT.sql | Table payment Jitu | Jitu | PAYMENT.sql |
| | | | | | | |

d. Daftar File DB Rekonsiliasi

| CORE BANKING SYSTEM (ICONS) | | PG | | DB | |
|---------------------------------------|---------------------------------------|---------------------------|---|---|------------------------|
| Outgoing | NOMINAL (B) | MT FILE | LOKAL | JITU | PG |
| RTGSOUTG_YYYYMMDD_ hhmmnn_XXXX.txt | PY38INCM0016.2101201 6.080311.done | M1512030001058328. swf | BNI_ICONS.s ql BNI_RTGS_BI .sql BNI_RTGS_O UTGOING.sql | PAYMENT.sql PAYMENTAUDIT.sql PAYMENTSAGA.sql SYSTEMLOG.sql | SWIFT_DOCUMEN T.sql |

e. Setting DB dan FTP Rekonsiliasi

1. Database Rekon RTGS Gen 2 di file jdbc.properties :

| DB | Ip Address | Port | SID | Username | Password |
|------------------|---------------|------|--------|----------|----------|
| Local buat rekon | 172.168.3.181 | 1521 | XE | XXXX | XXXX |
| PG BI | 192.168.4.53 | 1589 | BIRTGS | XXXX | XXXX |
| Jitu RTGS | 192.168.4.53 | 1589 | BIRTGS | XXXX | XXXX |

2. Ftp di file util.properties:

| Keterangan | Ip Address | Username | Password | Directory |
|-----------------|---------------|----------|----------|---------------------|
| Outgoing | 172.27.17.40 | XXXX | XXXX | /icons/recon |
| Incoming | 172.27.17.40 | XXXX | XXXX | /icons/log |
| Outgoing Error | 192.168.11.43 | XXXX | XXXX | /core/out/error |
| Incoming Error | 192.168.11.43 | XXXX | XXXX | /stpg/out/error |
| Read File Swift | 192.168.11.43 | XXXX | XXXX | /stpg/out/completed |
| Incoming | | | | |



5.6 Monitoring SLA

Tool Monitoring & Rekonsiliasi Transaksi RTGS akan mengakomodasi kebutuhan monitoring pencapaian SLA dalam pemrosesan transaksi RTGS (outgoing dan incoming). Perhitungan SLA tersebut berdasarkan pada perbandingan antara data "start" saat pemrosesan dimulai hingga "end" proses selesai. Selanjutnya keseluruhan data dirangkum dalam tabel dan dilakukan perhitungan nilai rata-rata, perhitungan SLA dapat dilihat pada tabel dibawah ini:

Outgoing

| TRN | TIME PI | SLA | |
|----------|---------|---------|-------|
| ININ | START | END | SLA |
| 000001 | 09:30 | 09:38 | 00:08 |
| 000002 | 09:31 | 09 : 40 | 00:10 |
| 000003 | 09 : 45 | 00:07 | |
| SLA RATA | 8.7 | | |

Incoming

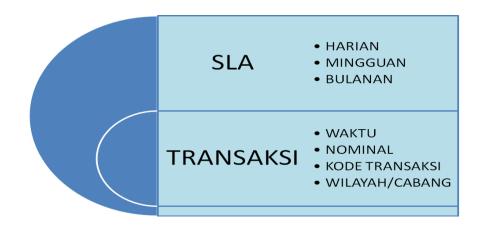
| TRN | TIME PI | SLA | |
|----------|---------|-------|-------|
| IKIN | START | END | SLA |
| 000004 | 09:31 | 09:39 | 00:05 |
| 000005 | 09:32 | 09:40 | 00:08 |
| 000006 | 09 : 45 | 00:09 | |
| SLA RATA | 2.2 | | |

5.7 Report Transaksi

Tool Monitoring & Rekonsiliasi Transaksi RTGS akan mengeluarkan report pemrosesan transaksi RTGS yang telah dilakukan dengan mencantumkan informasi sesuai dengan kebutuhan internal bank, dalam hal ini adalah informasi waktu, nominal, kode/jenis transaksi dan wilayah/cabang.

Report transaksi RTGS dapat dikeluarkan berdasarkan periode sesuai kebutuhan, yaitu :

- a. Periode harian (*daily report*)
- b. Rata-rata harian (daily average report)
- c. Periode mingguan (*weekly report*)
- d. Periode bulanan (*monthly report*)





5.8 Format Report Transaksi

1. Report Transaksi Per Periode

Periode Harian (Daily Report)

| OUTGOING | | INCOMING | | | |
|----------|------|--------------|--|--|--|
| NOMINAL | SLIP | NOMINAL SLIP | | | |
| | | | | | |
| | | | | | |

Rata-Rata Harian (Daily Average Report)

| OUTGOING | | INCOMING | | |
|----------|------|-------------|--|--|
| NOMINAL | SLIP | NOMINAL SLI | | |
| | | | | |
| | | | | |

Periode Mingguan (Weekly Report)

| PERIODE | OUTGOI | NG | INCOMING | | |
|---------|--------------|----|----------|------|--|
| PERIODE | NOMINAL SLIP | | NOMINAL | SLIP | |
| I | | | | | |
| II | | | | | |
| dst | | | | | |

Periode Bulanan (Monthly Report)

| TANGGAL | OUTGOI | NG | INCOMING | | |
|---------|---------|------|----------|------|--|
| | NOMINAL | SLIP | NOMINAL | SLIP | |
| 1 | | | | | |
| 2 | | | | | |
| 3, dst | | | | | |

2. Report Transaksi Berdasarkan Waktu

| WAKTU | OUTGOING | | INCOMI | NG |
|----------------|--------------|--|---------|------|
| (WIB) | NOMINAL SLIP | | NOMINAL | SLIP |
| 06:30 - 10:00 | | | | |
| >10:00 – 14:00 | | | | |
| >14:00 | | | | |

3. Report Transaksi Berdasarkan Nominal

| OUTGO | ING | INCOMING | | |
|---------|------|------------------------|------|--|
| NOMINAL | SLIP | NOMINAL | SLIP | |
| | | | | |
| | | | | |
| | | | | |
| | | OUTGOING NOMINAL SLIP | | |

4. Report Transaksi Berdasarkan Kode Transaksi (TTC)

| KODE TRANSAKSI | OUTGOING | | INCOMING | | |
|----------------|--------------|--|----------|------|--|
| (TTC) | NOMINAL SLIP | | NOMINAL | SLIP | |
| 100 | | | | | |
| 101 | | | | | |
| 102 dst | | | | | |

5. Report Transaksi Berdasarkan Cabang/Wilayah

| WILAYAH | CABANG | OUTGOING | |
|---------|--------|----------|------|
| WILATAN | | NOMINAL | SLIP |
| 001 | JKT | | |
| 002 | BDG | | |
| 003 dst | | | |



Report yang mengambarkan transaksi RTGS Keluar yang dikirim oleh Cabang atau Channelnya dan diurutkan berdasarkan Wilayah dan Cabang pengirim yang terdiri dari nominal dan Slip

6. Report Transaksi Berdasarkan Bank

a. Outgoing

| NO | BANK | OUTGOING | |
|-------|---------|----------|------|
| NO | | NOMINAL | SLIP |
| 1 | BCA | | |
| 2 | MANDIRI | | |
| 3 dst | | | |



Report yang mengambarkan transaksi RTGS Keluar dari BNI yang dikirim ke Bank penerima dan diurutkan berdasarkan besarnya transaksi yang dikirim

b. Incoming

| NO | DANIK | INCOMING | |
|-------|---------|----------|------|
| NO | BANK | NOMINAL | SLIP |
| 1 | MANDIRI | | |
| 2 | BCA | | |
| 3 dst | | | |



Report yang mengambarkan transaksi RTGS Masuk yang diterima BNI, yang dikirim dari Bank pengirim dan diurutkan berdasarkan besarnya transaksi yang dikirim

7. Report Throughput Guideline Outgoing

| WAKTU (WIB) | NOMINAL | PERSENTASE |
|----------------|---------|------------|
| 06:30 - 10:00 | | |
| >10:00 – 14:00 | | |
| >14:00 | | |



Report yang mengambarkan transaksi RTGS Keluar yang dikirim oleh BNI dan diurutkan berdasarkan waktu transaksi dikirim nominal + persentasenya



5.9 Format Report SLA

| (HARIAI | PERIODE (HARIAN, MINGGUAN, BULANAN) | | OUTGOING I | | INCOM | ING | | | |
|----------|--|---------|----------------------|----------|---------|--------------------|--------------|---------|-------|
| Outgoing | 1 | | | Incoming | | | | | |
| TRN | TIME PI | ROCESS | SLA TRN TIME PROCESS | | TON TIN | | TIME PROCESS | SLA | |
| TIXIN | START | END | SLA | | IKN | STAI | RT | END | JLA |
| 000001 | 09:30 | 09 : 38 | 00:08 | | 000004 | 09 : | 31 | 09:39 | 00:05 |
| 000002 | 09:31 | 09 : 40 | 00:10 | | 000005 | 09 : | 32 | 09 : 40 | 00:08 |
| 000003 | 09 : 45 | 09 : 52 | 00:07 | | 000006 | 09 : | 45 | 09 : 55 | 00:09 |
| SLARAT | A-RATA (N | /ENIT | 27 | | SIA RAT | Λ ₋ RΛΤ | v (v | /ENIT\ | 2.2 |

5.10 Format Report Aktivitas Transaksi RTGS Outgoing dan Incoming

| | | | RTGSK | eluar | | | | | RTGS Ma | suk | | | Total | l Sl ip | Menan | g / |
|--------|---------|--------|---------|-------|---------|--------|---------|-------|---------|------|---------|-------|---------|---------|----------|-----|
| Tgl | | | TRES | URI | TOT | AL | NASA | BAH | | | TOTA | ۱L | RT | GS | Kalah | |
| | Nominal | Slip | Nominal | Slip | Nominal | Slip | Nominal | Slip | Nominal | Slip | Nominal | Slip | Nominal | Slip | Nasaba | ah |
| 1 | 1.000 | 3.000 | 3.000 | 210 | 4.000 | 3.210 | 3.200 | 100 | 1.000 | 10 | 1.100 | 110 | 5.100 | 3.320 | (2.900) | K |
| 2 | 2.000 | 2.000 | 2.000 | 20 | 4.000 | 2.020 | 1.010 | 300 | 2.000 | 5 | 2.300 | 305 | 6.300 | 2.325 | (1.700) | K |
| 3 | 3.000 | 5.000 | 5.000 | 30 | 8.000 | 5.030 | 2.000 | 400 | 6.000 | 6 | 6.400 | 406 | 14.400 | 5.436 | (1.600) | K |
| 4 | 5.600 | 6.000 | 6.000 | 40 | 11.600 | 6.040 | 6.000 | 600 | 7.400 | 7 | 8.000 | 607 | 19.600 | 6.647 | (3.600) | K |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | 1.000 | 3.000 | 3.000 | 210 | 4.000 | 3.210 | 3.200 | 100 | 1.000 | 10 | 1.100 | 110 | 5.100 | 3.320 | (2.900) | K |
| 8 | 2.000 | 2.000 | 2.000 | 20 | 4.000 | 2.020 | 1.010 | 300 | 2.000 | 5 | 2.300 | 305 | 6.300 | 2.325 | (1.700) | K |
| 9 | 3.000 | 5.000 | 5.000 | 30 | 8.000 | 5.030 | 2.000 | 400 | 6.000 | 6 | 6.400 | 406 | 14.400 | 5.436 | (1.600) | K |
| 10 | 5.600 | 6.000 | 6.000 | 40 | 11.600 | 6.040 | 6.000 | 600 | 7.400 | 7 | 8.000 | 607 | 19.600 | 6.647 | (3.600) | K |
| 11 | 5.600 | 6.000 | 6.000 | 40 | 11.600 | 6.040 | 6.000 | 600 | 7.400 | 7 | 8.000 | 607 | 19.600 | 6.647 | (3.600) | K |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | 1.000 | 3.000 | 3.000 | 210 | 4.000 | 3.210 | 3.200 | 100 | 1.000 | 10 | 1.100 | 110 | 5.100 | 3.320 | (2.900) | K |
| 15 | 2.000 | 2.000 | 2.000 | 20 | 4.000 | 2.020 | 1.010 | 300 | 2.000 | 5 | 2.300 | 305 | 6.300 | 2.325 | (1.700) | K |
| 16 | 3.000 | 5.000 | 5.000 | 30 | 8.000 | 5.030 | 2.000 | 400 | 6.000 | 6 | 6.400 | 406 | 14.400 | 5.436 | (1.600) | K |
| 17 | | | | | | | | | | | | | | | | |
| 18 | 5.600 | 6.000 | 6.000 | 40 | 11.600 | 6.040 | 6.000 | 600 | 7.400 | 7 | 8.000 | 607 | 19.600 | 6.647 | (3.600) | K |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | 1.000 | 3.000 | 3.000 | 210 | 4.000 | 3.210 | 3.200 | 100 | 1.000 | 10 | 1.100 | 110 | 5.100 | 3.320 | | K |
| 22 | 2.000 | 2.000 | 2.000 | 20 | 4.000 | 2.020 | 1.010 | 300 | 2.000 | 5 | 2.300 | 305 | 6.300 | 2.325 | (1.700) | K |
| 23 | 3.000 | 5.000 | 5.000 | 30 | 8.000 | 5.030 | 2.000 | 400 | 6.000 | 6 | 6.400 | 406 | 14.400 | 5.436 | (1.600) | K |
| 24 | 5.600 | 6.000 | 6.000 | 40 | 11.600 | 6.040 | 6.000 | 600 | 7.400 | 7 | 8.000 | 607 | 19.600 | 6.647 | (3.600) | K |
| 25 | 5.600 | 6.000 | 6.000 | 40 | 11.600 | 6.040 | 6.000 | 600 | 7.400 | 7 | 8.000 | 607 | 19.600 | 6.647 | (3.600) | K |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | 1.000 | 3.000 | 3.000 | 210 | 4.000 | 3.210 | 3.200 | 100 | 1.000 | 10 | 1.100 | 110 | 5.100 | 3.320 | | K |
| 29 | 2.000 | 2.000 | 2.000 | 20 | 4.000 | 2.020 | 1.010 | 300 | 2.000 | 5 | 2.300 | 305 | 6.300 | 2.325 | | K |
| 30 | 3.000 | 5.000 | 5.000 | 30 | 8.000 | 5.030 | 2.000 | 400 | 6.000 | 6 | 6.400 | 406 | 14.400 | 5.436 | | K |
| 31 | 5.600 | 6.000 | 6.000 | 40 | 11.600 | 6.040 | 6.000 | 600 | 7.400 | 7 | 8.000 | 607 | 19.600 | 6.647 | (3.600) | Κ |
| Total | 69.200 | 92.000 | 92.000 | 1.580 | 161.200 | 93.580 | 73.050 | 8.200 | 96.800 | 154 | 105.000 | 8.354 | 266.200 | 101.934 | (56.200) | 0 |
| Rata-2 | 3.145 | 4.182 | 4.182 | 72 | 7.327 | 4.254 | 3.320 | 373 | 4.400 | 7 | 4.773 | 380 | 12.100 | 4.633 | (2.555) | |

Dashboard monitoring juga telah menyediakan fasilitas untuk fitur throughput guidelines yang merupakan target persentase tertentu dari total transaksi yang

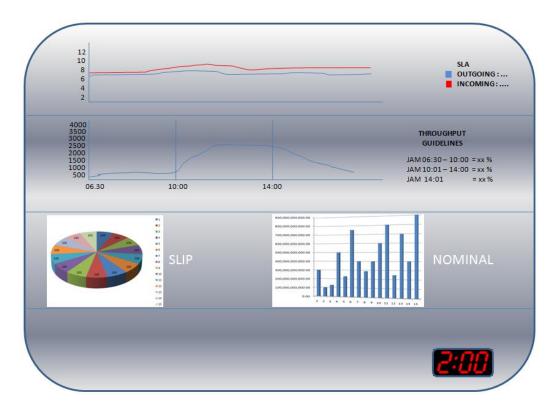


dilakukannya selama 1 hari atau periode tertentu, sehingga dapat mengurangi kemungkinan penumpukan transaksi pada akhir hari.

Dashboard berisikan data-data report sebagai berikut :

- 1. Grafik SLA yang menggambarkan aktivitas SLA RTGS Keluar dan Masuk berdasarkan parameter yang ditentukan
- 2. Grafik Throughput berdasarkan pergerakan Transaksi dan Waktu dalam bentuk Nominal dan Persentase
- 3. Grafik yang menggambarkan aktivitas transaksi RTGS Keluar dan Masuk berdasarkan nominal dan Slip ditetapkan sesuai waktu transaksi
- 4. Report yang menyampaikan informasi data transaksi hasil Rekons (Match atau Unmatch) dengan menggambarkan jumlah Slip dan nominal

Fitur throughput guidelines dapat dilihat pada gambar dibawah ini :





6 System Requirements

Berikut ini adalah spesifikasi software dan hardware dari aplikasi Tool Monitoring & Rekonsiliasi Transaksi RTGS :

6.1 Software Requirement

- ➤ Sistem Operasi
 - Server : Windows 2012 Server (64 bit) / Windows 2016 Server (64 bit)
 - Client/workstation: Windows 7 (32/64 bit), Windows 10 (32/64bit)
- ➤ Database
 - Server: MSSQL Server 2008/2012 32/64 bit
 / Oracle 10g Database Express Edition (32/64 bit)
 - Menggunakan port 1433 / 1521
- > Programming language
 - Java
- > Browser
 - Chrome
 - Firefox

6.2 Hardware Requirement

➤ Server

Processor : Intel Xeon Processor or higher recommended

Memory : 16 GB or higher recommended

Hard Disk : 500 GB or higher recommended

VGA : (Super-VGA 1027*768) or higher resolution monitor

Ethernet : Standar (100Mbps)

Client/workstation

Processor : Intel Core Duo or higher recommended

Memory : 4 GB or higher recommendedHard Disk : 40 GB or higher recommended

■ VGA : (Super-VGA 1027*768) or higher resolution monitor

Ethernet : Standar (100Mbps)

Networking : LAN TCP/IP



Workstation ini digunakan sebagai terminal Tool Monitoring & Rekonsiliasi Transaksi RTGS client.

7 Struktur File

Berikut ini adalah spesifikasi fungsi dari aplikasi Tool Monitoring & Rekonsiliasi Transaksi RTGS :

7.1 Outgoing Payment

| Offset | Field Description | Format | Remarks |
|---------------|---------------------|------------------|--|
| FILE SPECIFIC | CATION | | |
| DATABASE T | | | |
| FORMAT | : FIXED | | |
| RECORD SIZE | : (BYTE) : 988 | | |
| PRIMARY KE | Y : NONE | | |
| INDEX | : NONE | | |
| | | | |
| | File Header | | |
| 1 | Record Type | Х | Mandatory. "0" – header record |
| 2 | Member Code | X(17) | Mandatory, the installed RT member Either the principal member or the individual member itself |
| 19 | Creation Date | 9(8) | Mandatory. YYYYMMDD. Current value date |
| 27 | Batch Reference | X(3) | Mandatory. Can be any alphanumeric. |
| | SDDMMCCCCC | X(10) | This reference number is generated by the |
| | | | member in-house system and must be |
| | | | unique for the same processing day. |
| 37 | Message Type | Х | Mandatory. "I" – Outgoing IFTS |
| 38 | Batch Type | X | Mandatory. "1" – BatchUpload.This batch type can be used for all IFTS transactions. "2" – Offline OSA. This batch type can be used for single credit/debit funds transfer only. "3" – Net Posting. This batch type can be used for single credit/debit funds transfer only. |
| 39 | Reserved | X(957) X(966) | For future usage |
| | File Trailer | | |
| 1 | Record Type | Х | Mandatory. "9" – trailer record |
| 2 | Total Credit Count | 9(5) | Mandatory. Including the count of Credit Notification |
| 7 | Total Credit Amount | 9(16)v99 | Mandatory. Including the amount of Credit Notification |
| 25 | Total Debit Count | 9(5) | Mandatory. Including the count of Debit Notification |
| 30 | Total Debit Amount | 9(16)v99 | Mandatory. Including the amount of Debit Notification |
| 48 | Reserved | X(941) | For future usage |



| Offset | Field Description | Format | Remarks |
|--------|---------------------------|-------------------|---|
| | | X(957) | |
| | Transaction Record | =X(995)= | |
| 1 | Record Type | X | "1" – IFTS |
| 2 | Transaction Code | X(3) | Mandatory. |
| | | , , | 600 – Single Credit >> Memakai kode |
| | | | Transaksi ini |
| | | | 610 – Multiple Credit |
| | | | 620 – Credit Notification |
| | | | 630 – Debit Notification |
| | | | 640 – Single Debit |
| 5 | From Member | X(17) | Mandatory >>diisi dengan member code |
| | | | bank BNI yaitu BNINIDJA |
| 22 | To Member | X(17) | Mandatory >>diisi Member Code bank |
| | | | lawan>>lihat daftar member code (contoh |
| | | | jika transaksi ditujukan ke bank BCA |
| | | | berarti yang diisi adalah member code |
| | | | dari BCA |
| 39 | Receiving Bank Br. / Sub- | X(6) | Optional>> <mark>dikosongin/tidak diisi tapi</mark> |
| | Br. Code | | column tetap dihiting |
| 45 | TRN | X(8) | Mandatory <mark>>>diisi IFT00000</mark> |
| 53 | relref | X(16) | >>Diisi dengan No. Referensi |
| 69 | Amount | 9(15)v99 | Mandatory <mark>>>Nominal</mark> |
| 86 | Value Date | 9(8) | Mandatory. YYYYMMDD >> tgl transaksi |
| | | | tahunbulantanggal |
| | Transfer Details | =X(911)= | Ketemunya jika dijumlahkan 911 |
| | Single Transfer | =X(911)= | Redefines Transfer Details |
| 94 | Sender's Ref. No. | X(16) | Optional >>tidak diisi tetapi column tetap |
| | | | dihitung |
| 110 | Receiver's Ref. No. | X(16) | Optional >>tidak diisi tetapi column tetap |
| | | | dihitung |
| 126 | Deal Code / Stock Code | X(16) | Optional >> tidak diisi tetapi column tetap |
| 440 | | \(\(\frac{1}{2}\) | dihitung |
| 142 | To Account Number | X(24) | If receiver is BI HQ/BR – Mandatory |
| 155 | To A servert Nove s | V/4.40\ | >>tidak diisi tetapi column tetap dihitung |
| 166 | To Account Name | X(140) | Mandatory >>diisi dengan nama Bank |
| 200 | France A annual Number | V/2 4) | Lawan (contoh PT. Bank Mandiri) |
| 306 | From Account Number | X(24) | If sender is BI HQ/BR – Mandatory >>No |
| 220 | France Assessment Names | V/1.40\ | Rek. BNI 520009000990 |
| 330 | From Account Name | X(140) | Mandatory >>diisi BNI DIVISI OPERASIONAL |
| 470 | Payment Details | X(96) | |
| | Payment Details | | Mandatory >>keterangan |
| 566 | Member Info | X(96) | Optional >> diisi /FEAB /R /PTR /LOCAL |
| 662 | Originating Name | X(140) | Optional >>Nama Pengirim |
| 802 | Ultimate Bene Account | X(24) | Optional >>No. Rek. Penerima |
| 826 | Ultimate Bene Name | X(140) | Optional Nama Penerima |
| 966 | Currency | X(3) | Optional – Depends on TRN >>tidak diisi |
| 060 | Evehance Pete | 0(5),00 | tetapi column tetap dihitung |
| 969 | Exchange Rate | 9(5)v99 | Optional – Depends on TRN >>tidak diisi |
| 076 | Interest | 0(3),0(4) | tetapi column tetap dihitung |
| 976 | Interest | 9(3)v9(4) | Optional – Depends on TRN >>tidak diisi |
| 002 | Davis d | 00 | tetapi column tetap dihitung |
| 983 | Period | 99 | Optional – Depends on TRN >>tidak diisi |
| 005 | CAKTI Niversi | 0(20) | tetapi column tetap dihitung |
| 985 | SAKTI Number | 9(20) | Mandatory for transaction from offline |
| | | | OSA only. This field must be spaces from |



| Offset | Field Description | Format | Remarks |
|--------|-------------------|--------|--|
| | | | other sources. >>tidak diisi tetapi column |
| | | | tetap dihitung |

7.2 List TTC/Mapping TRN

| No. | Type Code | Sub Type Code | Description | Old TRN | МТ | Processing Scheme |
|-----|--------------|--|---|--|-----------|----------------------|
| 1 | M00 | OPT00 | OPERASI MONETER- OPT | BIRMM001, BIRMM030, BIRMM031, BIRMM035, BIRMM050, BIRMM053, BIRMM580, BIRMM585, BIRMMFS3, BIRMMP35, BIRMMRS1 | 202 | CT dan DT |
| 2 | M01 | OPTPG | OPERASI MONETER - OPT - PAGI | BIRMMFE1, BIRMMFE3, BIRMMFK1, BIRMMFS1 | 202 | CT dan DT |
| 3 | M02 | STFAC | OPERASI MONETER - STANDING FACILITY | BIRMM000, BIRMM069, BIRMM583, BIRMMP69, BIRRA051, BIRRA053 | 202 | CT dan DT |
| 4 | M03 | JTTPO | OPERASI MONETER- JATUH BIRMMFE2, BIRMMFE4, BIRMMFK2, BIRMMFS2 TEMPO | | 202 | CT dan DT |
| 5 | M10 | 10 SYOPT OPERASI MONETER SYARIAH- BIRMM032, BIRMM582 OPT | | 202 | CT dan DT | |
| 6 | M11 | SYSTF | OPERASI MONETER SYARIAH- STANDING FACILITY | BIRMM584 | 202 | CT dan DT |
| 7 | M12 | JTTPO | OPERASI MONETER SYARIAH - JATUH TEMPO | - | 202 | CT dan DT |
| 8 | M80 | 2000 2000 2000 2 | | 202 | CT dan DT | |
| 9 | M90 | BIAYA | OPERASI MONETER - BIAYA | BIRMM206, BIRRV301 | 202 | CT dan DT |
| 10 | M91 | PNRMA | OPERASI MONETER- PENERIMAAN | BIRMM026, BIRMM036, BIRMM051, BIRMM302, BIRMM581 | 202 | CT dan DT |
| 11 | C00 | SETOR | TRANSAKSIKAS - PENYETORAN | BIRCR220, BIRCR224 | 202 | СТ |
| 12 | C01 | GNRAL | TRANSAKSI KAS - SELISIH LEBIH/KURANG, PEMBATALAN DAN TITIPAN | BIRCR500, BIRCR501, BIRCR221, BIRCR560 | 202 | СТ |
| 13 | C10 | TARIK | TRANSAKSIKAS - PENARIKAN | BIRCR520, BIRCR521 | 202 | СТ |
| 14 | A00 | PFK00 | SKNBI - PREFUND KREDIT 0 | IFTCCPF1 | 202 | CT |
| 15 | A01 | PFK01 | SKNBI - TOP UP PREFUND KREDIT 1 | IFTCCTU1 | 202 | СТ |
| 16 | A02 | PFK02 | SKNBI - TOP UP PREFUND KREDIT 2 | IFTCCTU2 | 202 | СТ |
| 17 | A03 | BSKK1 | SKNBI - BSK NASIONAL KLIRING KREDIT 1 | IFTCLNC1 | 202 | СТ |
| 18 | A04 | BSKK2 | SKNBI - BSK NASIONAL KLIRING KREDIT 2 | IFTCLNC2 | 202 | СТ |
| 19 | A10 | PFD00 | SKNBI - PREFUND DEBET | IFTDCPF0 | 202 | CT |
| 20 | A11 | PFD01 | SKNBI - TOP UP PREFUND DEBET | IFTDCTU0 | 202 | СТ |

| No. | Type Code | Sub Type Code | Description | Old TRN | МТ | Processing Scheme |
|-----|--------------|------------------|--|--|-----------|----------------------|
| 1 | M00 | OPT00 | OPERASI MONETER - OPT | BIRMM001, BIRMM030, BIRMM031, BIRMM035, BIRMM050, BIRMM053, BIRMM580, BIRMM585, BIRMMFS3, BIRMMP35, BIRMMRS1 | 202 | CT dan DT |
| 2 | M01 | OPTPG | OPERASI MONETER - OPT - PAGI | BIRMMFE1, BIRMMFE3, BIRMMFK1, BIRMMFS1 | 202 | CT dan DT |
| 3 | M02 | STFAC | OPERASI MONETER - STANDING FACILITY | BIRMM000, BIRMM069, BIRMM583, BIRMMP69, BIRRA051, BIRRA053 | 202 | CT dan DT |
| 4 | M03 | JTTPO | OPERASI MONETER - JATUH TEMPO | BIRMMFE2, BIRMMFE4, BIRMMFK2, BIRMMFS2 | 202 | CT dan DT |
| 5 | M10 | OPT | | BIRMM032, BIRMM582 | 202 | CT dan DT |
| 6 | M11 | SYSTF | OPERASI MONETER SYARIAH- STANDING FACILITY | BIRMM584 | 202 | CT dan DT |
| 7 | M12 | JTTPO | OPERASI MONETER SYARIAH - JATUH TEMPO | - | 202 | CT dan DT |
| 8 | M80 | | | 202 | CT dan DT | |
| 9 | M90 | BIAYA | OPERASI MONETER - BIAYA | BIRMM206, BIRRV301 | 202 | CT dan DT |
| 10 | M91 | PNRMA | OPERASI MONETER- PENERIMAAN | BIRMM026, BIRMM036, BIRMM051, BIRMM302, BIRMM581 | 202 | CT dan DT |
| 11 | C00 | SETOR | TRANSAKSIKAS - PENYETORAN | BIRCR220, BIRCR224 | 202 | CT |
| 12 | C01 | GNRAL | TRANSAKSI KAS - SELISIH LEBIH/KURANG, PEMBATALAN DAN TITIPAN | BIRCR500, BIRCR501, BIRCR221, BIRCR560 | 202 | СТ |
| 13 | C10 | TARIK | TRANSAKSIKAS - PENARIKAN | BIRCR520, BIRCR521 | 202 | СТ |
| 14 | A00 | PFK00 | SKNBI - PREFUND KREDIT 0 | IFTCCPF1 | 202 | CT |
| 15 | A01 | PFK01 | SKNBI - TOP UP PREFUND KREDIT 1 | IFTCCTU1 | 202 | СТ |
| 16 | A02 | PFK02 | SKNBI - TOP UP PREFUND KREDIT 2 | IFTCCTU2 | 202 | СТ |
| 17 | A03 | BSKK1 | SKNBI - BSK NASIONAL KLIRING KREDIT 1 | IFTCLNC1 | 202 | СТ |
| 18 | A04 | BSKK2 | SKNBI - BSK NASIONAL KLIRING KREDIT 2 | IFTCLNC2 | 202 | СТ |
| 19 | A10 | PFD00 | SKNBI - PREFUND DEBET | IFTDCPF0 | 202 | CT |
| 20 | A11 | PFD01 | SKNBI - TOP UP PREFUND DEBET | IFTDCTU0 | 202 | СТ |



| No. | Type Code | Sub Type Code | Description | Old TRN | МТ | Processing Scheme |
|-----|--------------|--|--|--|-----------|----------------------|
| 1 | M00 | OPT00 | OPERASI MONETER - OPT | BIRMM001, BIRMM030, BIRMM031, BIRMM035, BIRMM050, BIRMM053, BIRMM580, BIRMM585, BIRMMFS3, BIRMMP35, BIRMMRS1 | 202 | CT dan DT |
| 2 | M01 | OPTPG | OPERASI MONETER - OPT - PAGI | BIRMMFE1, BIRMMFE3, BIRMMFK1, BIRMMFS1 | 202 | CT dan DT |
| 3 | M02 | STFAC | OPERASI MONETER - STANDING FACILITY | BIRMM000, BIRMM069, BIRMM583, BIRMMP69, BIRRA051, BIRRA053 | 202 | CT dan DT |
| 4 | M03 | JTTPO | OPERASI MONETER - JATUH TEMPO | BIRMMFE2, BIRMMFE4, BIRMMFK2, BIRMMFS2 | 202 | CT dan DT |
| 5 | M10 | OPT | | 202 | CT dan DT | |
| 6 | M11 | SYSTF | OPERASI MONETER SYARIAH- STANDING FACILITY | BIRMM584 | 202 | CT dan DT |
| 7 | M12 | JTTPO | OPERASI MONETER SYARIAH- JATUH TEMPO | • | 202 | CT dan DT |
| 8 | M80 | | | 202 | CT dan DT | |
| 9 | M90 | BIAYA | OPERASI MONETER - BIAYA | BIRMM206, BIRRV301 | 202 | CT dan DT |
| 10 | M91 | PNRMA | OPERASI MONETER- PENERIMAAN | BIRMM026, BIRMM036, BIRMM051, BIRMM302, BIRMM581 | 202 | CT dan DT |
| 11 | C00 | SETOR | TRANSAKSIKAS - PENYETORAN | BIRCR220, BIRCR224 | 202 | CT |
| 12 | C01 | GNRAL | TRANSAKSI KAS - SELISIH LEBIH/KURANG, PEMBATALAN DAN TITIPAN | BIRCR500, BIRCR501, BIRCR221, BIRCR560 | 202 | СТ |
| 13 | C10 | TARIK | TRANSAKSIKAS - PENARIKAN | BIRCR520, BIRCR521 | 202 | СТ |
| 14 | A00 | PFK00 | SKNBI - PREFUND KREDIT 0 | IFTCCPF1 | 202 | CT |
| 15 | A01 | PFK01 | SKNBI - TOP UP PREFUND KREDIT 1 | IFTCCTU1 | 202 | СТ |
| 16 | A02 | PFK02 | SKNBI - TOP UP PREFUND KREDIT 2 | IFTCCTU2 | 202 | СТ |
| 17 | A03 | BSKK1 SKNBI - BSK NASIONAL KLIRING IFTCLNC1 KREDIT 1 | | 202 | СТ | |
| 18 | A04 | BSKK2 | KNBI - BSK NASIONAL KLIRING IFTCLNC2 REDIT 2 | | 202 | СТ |
| 19 | A10 | PFD00 | SKNBI - PREFUND DEBET | IFTDCPF0 | 202 | СТ |
| 20 | A11 | | | | | СТ |

| No. | Type Code | Sub Type Code | Description | Old TRN | МТ | Processing Scheme |
|-----|--------------|------------------|--|------------------------------|-----|----------------------|
| 46 | P11 | IFTFX | TRANSAKSIANTAR PESERTA - JUAL BELI VALAS | IFTFX000, IFTFX001 | 202 | СТ |
| 47 | P12 | IFTPU | TRANSAKSIANTAR PESERTA - PUAB | IFTMM000, IFTMM001, IFTPL000 | 202 | СТ |
| 48 | P13 | IFTSB | TRANSAKSIANTAR PESERTA - SURAT BERHARGA NON SSS | IFTSX000 | 202 | СТ |
| 49 | P80 | IFTS0 | KEWAJIBAN BANK KPD PERUSAHAAN SWITCHING | IFTSW001 | 202 | СТ |
| 50 | P81 | IFTS1 | KEWAJIBAN PERUSAHAAN SWITCHING KPD BANK | IFTSW002 | 202 | СТ |
| 51 | P90 | IFTRT | TRANSAKSIANTAR PESERTA - PENGEMBALIAN | IFTRJ000 | 202 | СТ |
| 52 | P91 | IFTKM | TRANSAKSIPEMBAYARAN KOMPENSASI | IFTKOM00 | 202 | СТ |

Message Format (Single Credit)

| No. | Field | Description | Format | Rules | → | | MT103 | | MT202 |
|-----|---------------------------------|---|---------|--|----------|---------|--------------------------------|-----|--------------------------------|
| 1 | From Member | | 17x | | | | [[/1!a]/34x] 4!a2!a2!c[3!c] | 53A | [[/1!a]/34x] 4!a2!a2!c[3!c] |
| | | | 17x | | | | [[/1!a]/34x] 4!a2!a2!c[3!c] | 58A | [[/1!a]/34x] 4!a2!a2!c[3!c] |
| | Branch | Receiver's Branch/Sub-Branch Code | | Not used | | | | | |
| | TRN | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 8x | | | 72 | 4!c 6*35x | | |
| | | Related Sender Reference Number | 16x | | | 20 | 16x | 20 | 16x |
| 6 | Amount | | 15!n2!n | | | | 6!n3!a15d | 32A | 6!n3!a15d |
| 7 | Value Date | Transaction Value Date | 8!n | YYYYMMDD | | 32A | 6!n3!a15d | 32A | 6!n3!a15d |
| | sic Info | | | | | | | | |
| | By Order Of - Account No | Sender's Account Number | 24x | 9 digits of Bank's Account Number | | 53A | [[/1!a]/34x] 4!a2!a2!c[3!c] | 53A | [[/1!a]/34x] 4!a2!a2!c[3!c] |
| | By Order Of - Name & Address | Sender's Name & Location | 4*35x | Not used | | | | | |
| | Beneficiary - Account No | Receiver's Account Number | 24x | If receiver is BI : Beneficiary account number in SOSA | | | [[/1!a]/34x] 4!a2!a2!c[3!c] | 58A | [[/1!a]/34x] 4!a2!a2!c[3!c] |
| | | | | Otherwise : Receiver's Account Number | | | | | |
| | Beneficiary - Name & Address | Receiver's Name & Location | 4*35x | If receiver is BI : Beneficiary account name in SOSA | | | | | |
| | | | | Otherwise : Receiver's Name & Location | | | | | |
| | , | Details of payment instruction | | For payment instructions to government using TRN BIRG0100, BIRG0101, BIRG0102, BIRG0103, BIRG0104, BIRG0105: the first 7 characters should contains bank's clearing code | | 70 & 72 | | 72 | |
| 13 | | Additional detail of payment instruction | 3*32x | Konfirmasi penggunaan /FEAB/ dll | | 72 | 6*35x | 72 | 6*35x |



| No. | Field | Description | Format | Rules | → | | MT103 | | MT202 | |
|-----|--|---|---------|-------|----------|-----|-----------------|---------|--------------------------------|--------|
| Add | itional Info | | | | | | | | | |
| 14 | Sender's Ref No | Sender's Reference Number | 16x | | | 50K | [/34x] 4*35x | | | |
| 15 | Originating Party – Name & Address | Originating Party Name & Address | 4*35x | | | 50K | [/34x] 4*35x | | | |
| 16 | Receiver's Ref No | Receiver's Reference Number | 16x | | | 59K | [/34x] 4*35x | | | |
| 17 | Ultimate Beneficiary – Name & Address | Ultimate Beneficiary Name & Address | 4*35x | | | 59K | [/34x] 4*35x | | | |
| 18 | Ultimate Beneficiary – Account Number | Ultimate Beneficiary Account Number | 24x | | | 59K | [/34x] 4*35x | | | |
| 19 | Currency | Currency | 3!c | | _ | 32A | 6!n3!a15d | 32A | 6!n3!a15d | |
| 20 | Exchange Rate | Exchange Rate | 5!n2!n | | | | | 72 | /EXCH/ | |
| 21 | Interest Rate | Interest Rate | 3!n4!n | | | | | 72 | /INTR/ | |
| 22 | Period | Period | nn | | | | | 72 | /PERI/ | |
| | SAKTI Number | SAKTI Number | 20x | | | | | 20 / 21 | | |
| | Info | | | | | | | | | |
| | Ordering Institution | Ordering Institution | 11x | | | | | 53A | | |
| 25 | Beneficiary Institution | Beneficiary Institution | 11x | | | | | 58A | | |
| 26 | Sender Correspondent | Sender Correspondent | 11x | | | | | | [[/1!a]/34x] 4!a2!a2!c[3!c] | |
| 27 | Receiver Correspondent | Receiver Correspondent | 11x | | | | | 58A | [[/1!a]/34x] 4!a2!a2!c[3!c] | |
| 28 | CP Sender Correspondent | Counter Party Sender Correspondent | 11x | | | | | 72 | 6*35x | /CCOR/ |
| 29 | CP Receiver Correspondent | Counter Party Receiver Correspondent | 11x | | | | | 72 | 6*35x | /CCOR/ |
| 30 | Sender Currency Code | Sender Currency Code | 3!c | | | | | 32A | 6!n3!a15d | |
| 31 | Receiver Currency Code | Redeiver Currency Code | 3!c | | | | | 72 | 6*35x | /OCMT/ |
| | Sender Amount | Sender Amount | 12!n2!n | | | | | 32A | 6!n3!a15d | |
| 33 | Receiver Amount | Receiver Amount | 12!n2!n | | | | | 72 | 6*35x | /OCMT/ |
| 34 | PvP Code | PvP Code | 15x | | | | | 72 | 6*35x | /TRFR/ |

| No. | Field | Description | Format | Rules | → | | MT102 |
|--------|-----------------------------|-----------------------------------|---------|----------|----------|-----------|--------------------------------|
| 1 | From Member | Sender Member Code | 17x | | | 52A | [[/1!a]/34x] 4!a2!a2!c[3!c] |
| 2 | To Member | Receiver Member Code | 17x | | | 57A | [[/1!a]/34x] 4!a2!a2!c[3!c] |
| 3 | To Branch/Sub- Branch | Receiver's Branch/Sub-Branch Code | 6x | | | | |
| 4 | TRN | Transaction Type | 8x | | | 26T 72 | 4!c 6*35x |
| 5 | Rel TRN | Related Sender Reference Number | 16x | | | 20 | 16x |
| 6 | Total Amount | Transaction Amount | 15!n2!n | | | 32A | 6!n3!a15d |
| 7 | Value Date | Transaction Value Date | 8!n | YYYYMMDD | | 32A | 6!n3!a15d |
| Multip | ole Credit Details | • | • | • | | | · |
| 8 | By Order of Account | By Order of Account Number | 24x | | | 50K | [/34x] 4*35x |
| 9 | By Order of Name | By Order of Account Name | 20x | | | 50K | [/34x] 4*35x |
| 10 | Beneficiary Account Details | 3 | | 10 times | | | • |
| 10.1 | Account Number | Beneficiary Account Number | 24x | | | 59 | [/34x] 4*35x |
| 10.2 | Short Name | Beneficiary Account Name | 15x | | | 59 | [/34x] 4*35x |
| 10.3 | Amount | Amount | 14!n2!n | | | 32B | 3!a15d |
| 10.4 | Reference | Reference | 12x | | | 21 | 16x |

Multiple Credit

| No. | Field | Description | Format | Rules | → | | MT102 |
|-------|-----------------------------|-----------------------------------|---------|----------|----------|-----------|--------------------------------|
| 1 | From Member | Sender Member Code | 17x | | | 52A | [[/1!a]/34x] 4!a2!a2!c[3!c] |
| 2 | To Member | Receiver Member Code | 17x | | | 57A | [[/1!a]/34x] 4!a2!a2!c[3!c] |
| 3 | To Branch/Sub- Branch | Receiver's Branch/Sub-Branch Code | 6x | | | | |
| 4 | TRN | Transaction Type | 8x | | | 26T 72 | 4!c 6*35x |
| 5 | RelTRN | Related Sender Reference Number | 16x | | | 20 | 16x |
| 6 | Total Amount | Transaction Amount | 15!n2!n | | | 32A | 6!n3!a15d |
| 7 | Value Date | Transaction Value Date | 8!n | YYYYMMDD | | 32A | 6!n3!a15d |
| Multi | ple Credit Details | | | | | | |
| 8 | By Order of Account | By Order of Account Number | 24x | | | 50K | [/34x] 4*35x |
| 9 | By Order of Name | By Order of Account Name | 20x | | | 50K | [/34x] 4*35x |
| 10 | Beneficiary Account Details | | | 10 times | | | |
| 10.1 | Account Number | Beneficiary Account Number | 24x | | | 59 | [/34x] 4*35x |
| 10.2 | Short Name | Beneficiary Account Name | 15x | | | 59 | [/34x] 4*35x |
| 10.3 | Amount | Amount | 14!n2!n | | | 32B | 3!a15d |
| 10.4 | Reference | Reference | 12x | | | 21 | 16x |

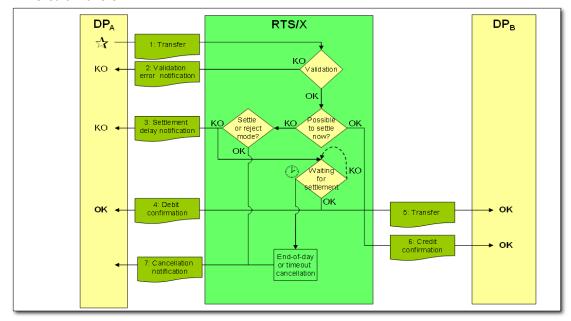


7.3 General Message Spesification

- Merujuk ke field di masing-masing MT pada bagian Payment Processing Schemes
- Codeword/keyword spesifik BI-RTGS Generasi II untuk field 72 terdiri dari:
 - 1. /CODTYPTR/ · TTC/Sub-TTC
 - 2. /BNF/ · informasi detil transaksi
 - 3. /CLRC/ · kode kliring cabang bank/peserta pengirim
 - 4. /EST/ · fitur Earliest Debit Time
 - 5. /LST/ fitur Latest Debit Time
 - 6. /RJT/ · fitur Reject Time
 - 7. /AMNT/ · nominal transaksi jika field 32A tidak cukup
 - 8. /EXCH/ informasi exchange rate (pada existing message format)
 - 9. /INTR/ · informasi interest rate (pada existing message format)
 - 10. /PERI/ · infromasi period (pada existing message format)
 - 11. /CCOR/ · PVP: CP Sender Correspondent, CP Receiver Correspondent
 - 12. /OCMT/ · PVP: Receiver Currency Code, Receiver Amount
 - 13. /TRFR/ · PVP: PVP Code
 - 14. /FEAB/ · Member to Member Information terkait resident/non-resident
- List of symbols allowed for pointing in RTS/X messages
- Day and time format
- Unique key of the transfers
- Unique key of individual payment
- · Unique key of requests
- ACK/NAK Acknowledgements

7.4 Payment Processing Schema

Credit Transfer



| Sequential number of message in the diagram | SWIFT message type | Name of Message at the diagram |
|--|-------------------------|--|
| 1 | MT102 or MT103 or MT202 | Transfer |
| 2 | MTn96 | Validation error notification |
| 3 | MTn96 | Settlement delay notification (optional) |
| 4 | MT900 | Debit confirmation (optional) |
| 5 | MT102 or MT103 or MT202 | Transfer |
| 6 | MT910 | Credit confirmation (optional) |
| 7 | MTn96 | Cancellation notification |

7.5 Transfer - MT102 or MT103 or MT202

• MT103

| Status | Tag | Field Name | Format | Comment | Example |
|--------|-----|--|------------------------------------|--|---|
| M | 20 | Sender's Reference | 16x | + | ATLAS10301 |
| М | 23B | Bank Operation Code | 4!c | No SWIFT Service Level involved | CRED |
| M | 23E | Instruction Code | 4!c | + | SDVA |
| M | 26T | Transaction Type Code | 3!a | + | P00 |
| M | 32A | Value Date/Currency/ Interbank Settled Amount | 6!n3!a15d | + | 090929IDR888,00 |
| M | 50a | Ordering customer | [/34x] 4*35x | Account, Name & Address of Customer A | /3734500000 PT. ATLAS Jakarta |
| M | 53a | Sender's Correspondent | [[/1!a]/34x] 4!a2!a2!c[3! c] | Account in RTS/X of Participant A BIC of Participant A | /D/523014000990 CENAIDJA |
| M | 57a | Account with institution | [[/1!a]/34x] 4!a2!a2!c[3! c] | Account in RTS/X of Participant D; BIC of Participant D | /C/520008000990 BMRIIDJA |
| М | 59a | Beneficiary customer | [/34x] 4*35x | Account, Name & Address of Customer D | /3854300000 PT. DELTA Bandung |
| 0 | 70 | Remittance Information | 4*35x | + | Payment for Invoice DELT0123 |
| M | 71A | Details of Charges | 3!a | + | SHA |
| 0 | 72 | Sender to Receiver information | 6*35x | + | /CODTYPTR/P00/IFT00 /BNF/ Invoice 23-3-12 /CLRC/0082934 |

```
{1:F01CENAIDJAAXXX1234123456}{2:I103INDOIDJRXRGSXSN}{3:{113:0070}}{4:
```

- :20:ATLAS10301
- :23B:CRED
- :23E:SDVA
- :26T:P00
- :32A:120322IDR1000000,50
- :50K:/3734500000
- PT. ATLAS
- Jakarta
- :53A:/D/523014000990
- CENAIDJA
- :57A:/C/520008000990
- BMRIIDJA
- :59:/3854300000
- PT. DELTA
- Bandung
- :70:Payment for Invoice
- DELT0123
- :71A:SHA
- :72:/BNF/Invoice 23-3-12
- /CODTYPTR/P00/IFT00
- /CLRC/0082934
- -}



MT202

| Status | Tag | Field Name | Format | Comment | Example |
|--------|-----|-------------------------|--------------|----------------------|---------------------|
| M | 20 | Transaction Reference | 16x | + | CENA20201 |
| | | Number | | | |
| M | 21 | Related reference | 16x | + | NONREF |
| M | 32A | Value Date, Currency | 6!n3!a15d | + | 090929IDR222000,50 |
| | | Code, Amount | | | |
| M | 53a | Sender's Correspondent | [[/1!a]/34x] | Account in RTS/X of | /D/523014000990 |
| | | | 4!a2!a2!c[3 | Participant A | CENAIDJA |
| | | | !c] | BIC of Participant A | |
| M | 58a | Beneficiary institution | [[/1!a]/34x] | Account in RTS/X of | /C/520008000990 |
| | | | 4!a2!a2!c[3 | Participant D | BMRIIDJA |
| | | | !c] | BIC of Participant D | |
| M | 72 | Sender to Receiver | 6*35x | + | :72:/BNF/PUAB |
| | | Information | | | /CODTYPTR/P12/IFTPU |
| | | | | | /CLRC/0140001 |

```
{1:F01CENAIDJAAXXX1234123456}{2:I202INDOIDJRXRGSXSN}{3:{113:0070}}{4:
:20:CENA20201
:21:NONREF
:32A:120322IDR1000000,50
:53A:/D/523014000990
CENAIDJA
:58A:/C/520008000990
BMRIIDJA
:72:/BNF/PUAB
/CODTYPTR/P12/IFTPU
/CLRC/0140001
```

MT102

- }

| Status | Tag | Field Name | Format | Comment | Example | |
|--------|--------------------------|---|--|---|---|--|
| М | 20 | File reference | ference Contains a reference of MT102. This reference should unique in the system in conjunction with Sender's BIC and value date of the MT102 | | 213804/887 | |
| M | 23 | Bank Operation Code | 16x | This field should contain a value 'CREDIT' | CREDIT | |
| М | 26T | Transaction Type Code | 3!a | These transaction codes should be agreed between Participants and CB. This field should be presented either in this block or in the repetitive sequence | REF | |
| М | 71A | Details of Charge | 3!a | Information agreed between Participants of the system and CB | SHA | |
| > | | | | | | |
| M | 21 Transaction reference | | 16x | Reference to the payment instruction within the MT102. This reference should be unique within the MT102. | MT1020001 | |
| M | 32B | Transaction amount 3!a15d Amount of the payment instruction | | Amount of the payment instruction | IDR1000, | |
| М | 50K | Ordering customer | ordering customer [/34x] Identification of cus | | /123-456 Company A | |
| М | 52a | Ordering Institution | /34x 4!a2!a2!c[3!c] | Account in RTS/X of BANK A BIC of BANK A | /987654321 CENAIDJA | |
| М | 57a | Account with institution | /34x 4!a2!a2!c[3!c] | Account in RTS/X of BANK D BIC of BANK D | /123456789 BNINIDJA | |
| М | 59 | Beneficiary customer | [/34x] 4*35x | Identification of customer that is a beneficiary of payment instruction | /456-123 Company B | |
| 0 | 70 | Remittance Information | | | SIF-133 PBZ-97123456ABC PBO-97123AFG14 | |
| 0 | 77B | Regulatory reporting | 3*35x | Information agreed between Participants of the system and CB. | Regulatory reporting | |
| | • | • | • | | • | |
| М | 32A | Value date, Currency, Amount | 6!n3!a15d | The amount part of this field should be equal to the sum of amounts from fields 32B from repetitive sequence of the MT102 | 090929IDR2300, | |
| 0 | 72 | Sender to Receiver Information | 5*35x | + | This information will be copied to the Receiver | |



```
{1:F01CENAIDJAAXXX1234123456}{2:I102INDOIDJRXRGSXN}{3:{113:0070}}{4:
:20:213804
:23:CREDIT
:26T:REF
:71A:SHA
:21:213804/001
:32B:IDR1000,
:50K:/123-456
Company A
:52B:/987654321
CENATOJA
:57B:/123456789
BNINIDJA
:59:/456-123
Company B
:70:Remit1
:77B:Regulatory 1
:21:213804/002
:32B:IDR1000,
:50K:/123-789
Company C
:52B:/987654321
CENAIDJA
:57B:/123456789
BNINIDJA
:59:/789-123
Company D
:70:Remit2
:77B:Regulatory 2
:32A:120322IDR2000,
:72:/CODTYPTR/P00/IFT00
-}
```

7.6 Validation error notification - MTn96

MTn96/STAT: Status answer message

| Status | Tag | Field Name | Format | Example |
|--------|-----|--|---|--|
| М | 20 | Transaction Reference Number | 16x | 6457RW |
| M | 21 | Related Reference | 16x | 494931/DEV |
| М | 76 | Answers | 4!a[/6!n4!n1!x4!n] 4c[/6!n4!n1!x4!n] | STAT/0202032300-02 ERRC/0202031706-02 |
| 0 | 77A | Narrative | 3*35x | ER21 Participant cannot credit account |
| M | 11R | MT and Date of Original Message | 3!n 6!n [4!n6!n] | 103 090929 444466666 |
| 0 | | Copy of at least mandatory fields from original transfer | | |

Field :76:

| STAT REJT | Payment message was rejected due to MTn92 issued by Participant |
|--------------|--|
| STAT CANC | Payment message was cancelled due to CB and/or RTS/X regulations |
| STAT EXEC | Payment is being executed |
| STAT SETL | Payment is settled |
| STAT ERRC | Error occurs in processing a transfer |

youd



MT196/STAT ERRP: Status answer message (ERRP)

```
{1:F01INDOIDJRXXXX1234654321}{2:O1961301120322CENAIDJAAXXX12341234561203221301N}{3:{
113:0070}}{4:
:20:Ref0003
:21:NONREF
:76:STAT/1203221302+0700
ERRP
:77A:ER07
Participant cannot send message in
current period
:11R:103
120322
1234123456
:20:ATLAS10301
:26T:P00
:32A:120322IDR1000000,50
:53A:/D/523014000990
CENAIDJA
:57A:/C/520008000990
BMRIIDJA
:70:Payment for Invoice
DELT0123
:72:/BNF/Invoice 23-3-12
/CODTYPTR/P00/IFT00
/CLRC/0082934
-}
```

MT196/STAT ERRP: Status answer message (ERRP)

```
{1:F01INDOIDJRXXXX1234654321}{2:O1961301120322CENAIDJAAXXX12341234561203221301N}{3:{
113:0070}}{4:
:20:Ref0003
:21:NONREF
:76:STAT/1203221302+0700
ERRP
:77A:ER07
Participant cannot send message in
current period
:11R:103
120322
1234123456
:20:ATLAS10301
:26T:P00
:32A:120322IDR1000000,50
:53A:/D/523014000990
CENAIDJA
:57A:/C/520008000990
BMRTTDJA
:70:Payment for Invoice
DELT0123
:72:/BNF/Invoice 23-3-12
/CODTYPTR/P00/IFT00
/CLRC/0082934
```

7.7 Debit confirmation (optional) - MT900

MT196/STAT ERRP: Status answer message (ERRP)

| Status | Tag | Field Name | Content | Example |
|--------|-----|----------------------------|----------------|--------------------|
| M | 20 | Transaction Reference | 16x | 676767CD |
| | | Number | | |
| M | 21 | Related Reference | 16x | 213804/887 |
| M | 25 | Account Identification | 35x | 123456789 |
| M | 32A | Value Date, Currency Code, | 6!n3!a15d | 090929IDR222000,50 |
| | | Amount | | |
| 0 | 52a | Ordering institution | 4!a2!a2!c[3!c] | CENAIDJA |
| 0 | 72 | Sender to Receiver | 6*35x | |
| | | Information | | |

youd



```
{1:F01INDOIDJRXXXX1234654321}{2:O9001301120322CENAIDJAAXXX12341234561203221301N}{3:{113 :0070}}{4: :20:Ref0004 :21:ATLAS10301 :25:523014000990 :32A:120322IDR1000000,50 -}
```

7.8 Transfer - MT102 or MT103 or MT202

Copy MT di langkah no. 1 MT103

```
{1:F01INDOIDJRXXXX1234654322}{2:O910BMRIIDJAXXXXN}{3:{113:0070}}{4:
:20:ATLAS10301
:23B:CRED
:23E:SDVA
:26T:P00
:32A:120322IDR1000000,50
:50K:/3734500000
PT. ATLAS
Jakarta
:53A:/D/523014000990
CENAIDJA
:57A:/C/520008000990
BMRIIDJA
:59:/3854300000
PT. DELTA
Bandung
:70:Payment for Invoice
DELT0123
:71A:SHA
:72:/BNF/Invoice 23-3-12
/CODTYPTR/P00/IFT00
/CLRC/0082934
```

7.9 Credit confirmation (optional) - MT910

MT910: Confirmation of Credit

| Status | Tag | Field Name | Content | Example |
|--------|-----|----------------------------|----------------|--------------------|
| M | 20 | Transaction Reference | 16x | 262626CC |
| | | Number | | |
| M | 21 | Related Reference | 16x | 213804/887 |
| M | 25 | Account Identification | 35x | 987654321 |
| M | 32A | Value Date, Currency Code, | 6!n3!a15d | 090929IDR222000,50 |
| | | Amount | | |
| M | 52a | Ordering institution | [[/1!a]/34x] | D/523014000990 |
| | | | 4!a2!a2!c[3!c] | CENAIDJA |
| 0 | 56a | Intermediary | 4!a2!a2!c[3!c] | CENAIDJA |
| 0 | 72 | Sender to Receiver | 6*35x | |
| | | Information | | |

```
{1:F01INDOIDJRXXXX1234654322}{2:0910BMRIIDJAXXXXN}{3:{113:0070}}{4:
:20:91812022/910
:21:ATLAS10301
:25:520008000990
:32A:120322IDR1000000,50
:52A:/D/523014000990
CENAIDJA
-}
```



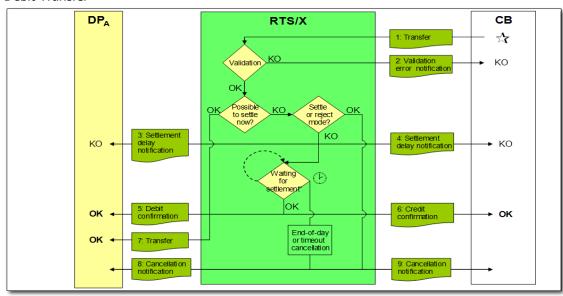
7.10 Cancellation notification - MTn96

MT196/STAT CANC: Status answer message (CANC)

```
{1:F01INDOIDJRXXXX1234654323}{2:O1961301120322CENAIDJAAXXX12341234561203221301N}{3:{
113:0070}}{4:
:20:Ref0003
:21:NONREF
:76:STAT/1203221700+0700
CANC
:77A:EP178
Enforced cancellation
:11R:103
120322
1234123456
:20:ATLAS10301
:26T:P00
:32A:120322IDR1000000,50
:53A:/D/523014000990
CENAIDJA
:57A:/C/520008000990
BMRIIDJA
:70:Payment for Invoice
DELT0123
:72:/BNF/Invoice 23-3-12
/CODTYPTR/P00/IFT00
/CLRC/0082934
```

7.11 Payment Processing Schema

Debit Transfer



| Sequential number of message in the diagram | SWIFT message type | Name of Message at the diagram |
|---|--------------------|--|
| 1 | MT202 | Transfer |
| 2 | MTn96 | Validation error notification |
| 3 | MTn96 | Settlement delay notification (optional) |
| 4 | MTn96 | Settlement delay notification (optional) |
| 5 | MT900 | Debit confirmation (optional) |
| 6 | MT910 | Credit confirmation (optional) |
| 7 | MT202 | Transfer |
| 8 | MTn96 | Cancellation notification |
| 9 | MTn96 | Cancellation notification |

1. **Transfer - MT202**

Beyond 71



| Status | Tag | Field Name | Format | Comment | Example |
|--------|-----|-------------------------|----------------|--------------------------|-----------------|
| | | | | | |
| M | 53a | Sender's | [[/1!a]/34x] | Account in RTS/X of | /D/523014000990 |
| | | Correspondent | 4!a2!a2!c[3!c] | Participant A | CENAIDJA |
| | | · | | BIC of Participant A | |
| М | 58a | Beneficiary institution | [[/1!a]/34x] | Account in BI-SOSA | /+569011470980 |
| | | _ | 4!a2!a2!c[3!c] | BIC of BI as participant | INDOIDJA |
| | | | | | |

```
{1:F01INDOIDJAAXXX0001000031}{2:I202INDOIDJRXRGSXSN}{3:{113:0010}}{4:
:20:Ref001
:21:NONREF
:32A:120322IDR1000000,00
:53A:/D/523014000990
CENAIDJA
:58A:/+569011470980
INDOIDJA
:72:/BNF/Denda GWM
/CODTYPTR/B00/BITP0
/CLRC/0010016
-}
```

7.12 Format Member Statement

Member Statement Existing

| OPENING BALANCE | PENING BALANCE AS AT 30/09/2015 21.485.344.534.481,28 CR | | | | | | | |
|-----------------|--|--------|----------|------------------|------------------|--------------------|----------------------|--|
| CONSTRUCT DATE | SETT.TIME | REF NO | TRN | REL TRN | COUNTERPARTY | DR AMOUNT (IDR) | CR AMOUNT (IDR) | |
| 30/09/2015 | 05:28:19 | 000965 | BIRRV000 | 930386 | INDOIDJA930 | 31.098.650,00 | | |
| 30/09/2015 | 05:30:26 | 001222 | BIRRV001 | 980746 | INDOIDJA930 | 165.000,00 | | |
| 30/09/2015 | 05:30:56 | 001436 | BIRRV304 | 930052 | INDOIDJA930 | 132.000,00 | | |
| 30/09/2015 | 05:31:03 | 001351 | BIRRV304 | 930052 | INDOIDJA930 | 181.500,00 | | |
| 30/09/2015 | 05:35:03 | 001562 | BIRMM583 | | INDOIDJA930 | | 1.354.400.000.000,00 | |
| 28/09/2015 | 05:44:51 | 001836 | IFTDCPF0 | PREFUND AWAL DB | INDOIDJA930CHDC | 800.000.000.000,00 | | |
| 28/09/2015 | 05:44:52 | 001837 | IFTCCTU1 | PREFUND KR | INDOIDJA930CHCC1 | 700.000.000.000,00 | | |
| 30/09/2015 | 05:48:37 | 002086 | BIRMM585 | | INDOIDJA930 | | 599.972.554.239,47 | |
| 30/09/2015 | 05:48:37 | 002087 | BIRMM585 | | INDOIDJA930 | | 349.345.920.478,15 | |
| 30/09/2015 | 06:38:52 | 000166 | IFT00000 | R882244C4174D5DB | BMRIIDJA | 437.535.323,00 | | |
| 30/09/2015 | 06:38:55 | 000167 | IFT00000 | R880464C4174F284 | BRINIDJA | 357.723.182,00 | | |

Member Gen 2

