Technical Specifications
Symphoni ISO 8583 – PLN Postpaid

Project ID	SYM/API-ISO8583-POSTPAID/1.0.0
Project Name	API Transaction (PLN)
Document Status	Final

Contents

1 System Overview

1.1 Introduction

Symphoni sebagai standard aplikasi Bank Syariah Mandiri menyediakan jasa pembayaran dan pembelian berbagai produk sebagai berikut :

No	Layanan
1	PLN

2 Module Description

Pada API Symphoni ISO8583 koneksi yang digunakan adalah Socket TCP/IP. Anda dapat memeriksa koneksi dengan melakukan telnet ke server tujuan.

telnet ip_host_server port_server

Kemudian anda dapat mengirimkan text apapun sebagai echo message, untuk menguji koneksi.

Trailer yang digunakan sebagai end of message adalah **\n** atau **char(10)**.

2.1 TRANSAKSI

Contoh Program :

```java
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.PrintWriter;
import java.net.Socket;
import java.net.UnknownHostException;


public class TestSocket {

    private final static String IP_SERVER = "xxx.xxx.xxx.xxx";
    private final static Integer PORT_SERVER = xxxx;


    public static void main(String[] args) throws UnknownHostException, IOException {

        Socket clientSocket = new Socket(IP_SERVER, PORT_SERVER);

        String networkRequest =
"210040300041808100000599504000010581267201405051520406021074510017074510206000000000000009790310000000022111
236521000000000000";

        PrintWriter outgoing = new PrintWriter(clientSocket.getOutputStream());
        InputStreamReader incoming = new InputStreamReader(clientSocket.getInputStream());

        String trailer = new String(new char[] {10});

        //kirim
        outgoing.print(networkRequest+trailer);
        outgoing.flush();
```

```
        int data;
        StringBuffer sb = new StringBuffer();


        while((data = incoming.read()) != 10 ) {
            sb.append((char) data);
        }


        System.out.println("Rec. Msg ["+sb.toString()+"] len ["+sb.toString().length()+"]");


        outgoing.close();
        incoming.close();
        clientSocket.close();



    }

}
```

b. Transaksi

PLN POSTPAID

1. Inquiry Request Message
   Message Type Identifier   : 2100

Sender   : MitraSymphoni

Tujuan   : Memeriksa tagihan pelanggan

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2100= Inquiry request	YES	
2	BitMap		h	16		Bit Map 4030004180810000 = use field 2, 11, 12, 26, 32, 33, 41, 48 of ISO8583:2003 Data Element		1
3	Length of PAN		n	2	Zero left padding	Length of PAN 05	YES	2

4	Primary Account Number (PAN)		n	5		99501 (Kode Produk Postpaid)	YES	2
5	Switcher Trace Audit Number		n	12	Zero left padding	Transaksi ID mitra Symphoni	YES	11
6	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Date & Time of local transaction	YES	12
7	Merchant Category Code		n	4		6010=Teller 6011=ATM 6012=POS 6013=AutoDebit/gir alisasi 6014=Internet 6015=Kiosk 6016=Phone Banking/Call Center 6017=Mobile Banking 6018=EDC	YES	26
8	Length of Bank Code		n	2	Zero left-padding	Length of Bank Code 07		32

9	Bank Code		an	7	Zero left-padding	Bank Code (defined by Bank Indonesia)	YES	32
10	Length of partner central ID		n	2	Zero left-padding	Length of partner central ID 07		33
11	Partner Central ID		n	7	Zero left-padding	Customer ID Mitra Symphoni	YES	33
12	Terminal ID		ans	16	Zero left-padding	Kode loket / terminal mitra	YES	41
13	Length of Additional Private Data		n	3	Zero left-padding	Length of additional Private data (sub field of data element 48) for MTI=2100 Sum of sub-fields length 031	YES	48
14	Additional Private Data							
		Switcher	an	7	Zero	Switcher	Custom	48

		ID			left-padding	Identification Code (Provided by PLN) 0000000	(sub data element 48:1)	
		Subscrib er ID	n	12	Space left-padding	IDPEL 000000000000	Custom (sub data element 48:2)	48

2. Inquiry Response Message

Message Type Identifier   : 2110
Sender   : MitraSymphoni
Tujuan   : Memeriksa tagihan pelanggan

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2110= Inquiry	YES	

						response		
2	BitMap		h	16		Primary Bit Map 5030004182810000 = use field 2, 4 11, 12, 26, 32, 33, 39, 41 48 of ISO8583:2003 Data Element		1
3	Length of PAN		n	2	Zero left padding	Length of PAN 05	YES	2
4	Primary Account Number (PAN)		n	5		99501 (Kode Produk Postpaid)	YES	2
5	Transaction Amount		n	16			YES	4
		ISO Currency Code	n	3		ISO Currency Code Indonesian Rupiah=360 360	YES	4

		Currency Minor Unit	n	1		Number of decimal value		
						0=no decimal value n=n-last digits of value amount are decimal values	YES	4
						0		
		Value Amount	n	12	Zero left padding	Transaction Amount TA=RPTAG + RPBK + ADM 000000000000		
6	Switcher Trace Audit Number		n	12	Zero left padding	Transaksi ID mitra Symphoni	YES	11
7	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Date & Time of local transaction	YES	12
8	Merchant Category Code		n	4		6010=Teller 6011=ATM	YES	26

						6012=POS		
						6013=AutoDebit/gir alisasi		
						6014=Internet		
						6015=Kiosk		
						6016=Phone Banking/Call Center		
						6017=Mobile Banking		
						6018=EDC		
9	Length of Bank Code		n	2	Zero left-padding	Length of Bank Code 07		32
10	Bank Code		an	7	Zero left-padding	Bank Code (defined by Bank Indonesia)	YES	32
11	Length of partner central ID		n	2	Zero left-padding	Length of partner central ID 07		33
12	Partner Central ID		n	7	Zero left-padding	Customer ID Mitra Symphoni	YES	33
13	Response Code (RC)		n	4		0000=Successful	YES	39

						0004=ERROR-Unregistered biller		
						0005=ERROR-Other		
						0006=ERROR-Blocked Partner Central		
						0007=ERROR-Blocked Terminal		
						0008=ERROR-Invalid-access time		
						0011=ERROR-Need to sign-on		
						0014=ERROR-Unknown subscriber		
						0030=ERROR-Invalid message		
						0031=ERROR-Unregistered Bank Code		
						0032=ERROR-Unre		

						gristered Partner Central 0034=ERROR-Unregristered terminal 0033=ERROR-Unregristered Product 0068=ERROR-Time out 0088=ERROR-Bills already paid 0089=ERROR-Curre nt bill is not available 0090=ERROR-Cut-o ff is in progress		
14	Terminal ID		ans	16	Zero left-padding	Kode loket / terminal mitra	YES	41
15	Length of		n	3	Zero left-padding	Length of additional private data	YES	48

	Additional Private Data					(sub field of data element 48) for

MTI=2110

Sum of sub-fields length

019 if RC =0000

232 if RC=0000 & BS=1

343 if RC=0000 & BS=2

454 if RC=0000 & BS=3

565 if RC=0000 & BS=4 | | |
| 15 | Additional Private Data | | | | | | | |
| | | Switcher ID | an | 7 | Zero left-padding | Identical to same field in inquiry request | Custom (sub data | 48 |

						message	element 48:1)	
		Subscriber ID	n	12	Space left-padding	Identical to same field in inquiry request message	Custom (sub data element 48:2)	48
		Bill Status (BS)	n	1		Status of subscribe bills 1=Biller send 1 bill 1=Biller send 2 bills 1=Biller send 3 bills 1=Biller send 4 bills Available if RC=0000	Custom (sub data element 48:3)	48
		Total Outstanding	n	2		Number of outstanding bills 01=1 total	Custom (sub data element 48:4)	48

		Bill				outstanding bills .... Nn=nn total outstanding bills Available if RC=0000 and BS in [1..4]		
		Switcher Reference Number	an	32		Switcher Reference Number Available if RC=0000	Custom (sub data element 48:6)	48
		Subscriber Name	an	25	Space right-padding	Nama Pelanggan Available if RC=0000	Custom (sub data element 48:7)	48
		Service Unit (SU)	an	5	Space right-padding	Service Unit (KDUP) Available if RC=0000 and BS in [1..4]	Custom (sub data element 48:8)	48
		Service	n	15	Space right-	Service Unit Phone	Custom	48

		Unit Phone(SUP)			padding	(SUP) Available if RC=0000 & BS in [1..4]	(sub data element 48:9)	
		Subscriber Segmentation	an	4		Customer Segmentation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:10)	48
		Power Consuming Category	n	9	Zero left-padding	Power Consuming Category Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:11)	48
		Total Admin Charges	n	9	Zero left-padding	Total Administration Charges	Custom (sub data element 48:12)	48
		Bill Period	n	6	CCYYMM	Month and Year (BLTH) of bill to be	Custom (sub data	48

		(repeated)				paid	element 48:13)	
						Available if RC=0000 & BS in [1..4]		
		Due Date (repeated)	n	8	DDMMCCYY	Due date of bill payment Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:14)	48
		Meter Read Date (repeated)	n	8	DDMMCCYY	Date when the subscribed meter was read. Currently is reserved (not available yet) and set to CCYYMMDD Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:15)	48

		Total Electricity Bill (Repeated)	n	11	Zero left-padding	Electricity bill (RPTAG) to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:16)	48
		Incentive (Repeated)	xn	11		Eletricity bill incentive Available if RC=0000 & BS in [1..4] 00000000000=incentive (Total Electricity bill contains incentive value 000000000000=discentive (Total Electricity bill contains discentive value)	Custom (sub data element 48:17)	48
		Value Added	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation	Custom (sub data	48

		Tax* (repeated)				Available if RC=0000 & BS in [1..4]	element 48:18)	
		Penalty Fee (repeated)	n	9	Zero left-padding	Penalty fee (RPBK) to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:19)	48
		Previous Meter Reading 1 (repeated)	n	8	Zero left-padding	Last month meter reading SLALWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:20)	48
		Current Meter Reading 1 (repeated)	n	8	Zero left-padding	Current month meter reading SAHLWBP	Custom (sub data element 48:21)	48

Symphoni ISO 8583 Specifications

		Previous Meter Reading 2 (repeated)	n	8	Zero left-padding	SLAWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:22)	48
		Current Meter Reading 2 (repeated)	n	8	Zero left-padding	SAHWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:23)	48
		Previous Meter Reading 3 (repeated)	n	8	Zero left-padding	SLAKVARH Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:24)	48
		Current	n	8	Zero	SAHKVARH	Custom	48

					left-padding			
		Meter Reading 3 (repeated)				Available if RC=0000 & BS in [1..4]	(sub data element 48:25)	

3. Payment Request Message

Message Type Identifier   : 2200
Sender   : MitraSymphoni
Tujuan   : Pembayaran Tagihan

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2200= Payment request	YES	
2	BitMap		h	16		Primary Bit Map		1

						5030004182810000 = use field 2, 4 11, 12, 26, 32, 33, 39, 41 48 of ISO8583:2003 Data Element		
3	Length of PAN		n	2	Zero left padding	Length of PAN 05	YES	2
4	Primary Account Number (PAN)		n	5		99501 (Kode Produk Postpaid)	YES	2
5	Transaction Amount		n	16		Must be identical to same field in inquiry response message	YES	4
		ISO Currency Code	n	3		Must be identical to same field in inquiry response message	YES	4
		Currency Minor	n	1		Must be identical to same field in inquiry	YES	4

		Unit				response message		
		Value	n	12	Zero left padding	Must be identical to same field in inquiry response message		
		Amount						
6	Switcher Trace Audit Number		n	12	Zero left padding	Must be identical to same field in inquiry response message	YES	11
7	Date & Time, Local Transaction		n	14	CCYYMMDDhhmmss	Date time of local transactions	YES	12
8	Merchant Category Code		n	4		Must be identical to same field in inquiry response message	YES	26
9	Length of Bank Code		n	2	Zero left-padding	Must be identical to same field in inquiry response message		32

10	Bank Code		an	7	Zero left-padding	Must be identical to same field in inquiry response message	YES	32
11	Length of partner central ID		n	2	Zero left-padding	Must be identical to same field in inquiry response message \		33
12	Partner Central ID		n	7	Zero left-padding	Must be identical to same field in inquiry response message	YES	33
13	Terminal ID		ans	16	Zero left-padding	Must be identical to same field in inquiry response message	YES	41
15	Length of Additional Private Data		n	3	Zero left-padding	Length of additional private data (sub field of data element 48) for MTI=2200 Sum of sub-fields	YES	48

						length		
						233 if PS=1		
						344 if PS=2		
						455 if PS=3		
						566 if PS=4		
15	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Must be identical to same field in inquiry response message	Custom (sub data element 48:1)	48
		Subscriber ID	n	12	Space left-padding	Must be identical to same field in inquiry response message	Custom (sub data element 48:2)	48
		Bill Status (BS)	n	1		Status of subscribe bills 1=Biller send 1 bill	Custom (sub data element 48:3)	48

						1=Biller send 2 bills 1=Biller send 3 bills 1=Biller send 4 bills Available if RC=0000		
		Payment Status (PS)	n	1		Number of bill will be paid (currently must be equal to Bill Status) Valid values [1..4]	Custom (sub data element 48:4)	48
		Total Outstandin g Bill	n	2		Number of outstanding bills 01=1 total outstanding bills .... Nn=nn total outstanding bills Available if RC=0000 and BS in [1..4]	Custom (sub data element 48:4)	48

		Switcher Reference Number	an	32		Switcher Reference Number Available if RC=0000	Custom (sub data element 48:6)	48
		Subscriber Name	an	25	Space right-padding	Nama Pelanggan Available if RC=0000	Custom (sub data element 48:7)	48
		Service Unit (SU)	an	5	Space right-padding	Service Unit (KDUP) Available if RC=0000 and BS in [1..4]	Custom (sub data element 48:8)	48
		Service Unit Phone(SUP)	n	15		Service Unit Phone (SUP) Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:9)	48
		Subscriber Segmentat ion	an	4	Space right-padding	Customer Segmentation	Custom (sub data element	48

						Available if RC=0000 & BS in [1..4]	48:10)	
		Power Consuming Category	n	9	Zero left-padding	Power Consuming Category Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:11)	48
		Total Admin Charges	n	9	Zero left-padding	Total Administration Charges	Custom (sub data element 48:12)	48
		Bill Period (repeated)	n	6	CCYYMM	Month and Year (BLTH) of bill to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:13)	48
		Due Date (repeated)	n	8	DDMMCCYY	Due date of bill payment	Custom (sub data element	48

						Available if RC=0000 & BS in [1..4]		48:14)	
		Meter Read Date (repeated)	n	8	DDMMCCYY	Date when the subscribed meter was read. Currently is reserved (not available yet) and set to CCYYMMDD Available if RC=0000 & BS in [1..4]		Custom (sub data element 48:15)	48
		Total Electricity Bill (Repeated)	n	11	Zero left-padding	Electricity bill (RPTAG) to be paid Available if RC=0000 & BS in [1..4]		Custom (sub data element 48:16)	48
		Incentive	xn	11		Eletricity bill		Custom	48

		(Repeated)				incentive Available if RC=0000 & BS in [1..4] 00000000000=incentive (Total Electricity bill contains incentive value 000000000000=discentive (Total Electricity bill contains discentive value)	(sub data element 48:17)	
		Value Added Tax* (repeated)	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:18)	48
		Penalty Fee	n	9	Zero left-padding	Penalty fee (RPBK) to be paid	Custom (sub data element	48

		(repeated)				Available if RC=0000 & BS in [1..4]	48:19)	
		Previous Meter Reading 1 (repeated)	n	8	Zero left-padding	Last month meter reading SLALWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:20)	48
		Current Meter Reading 1 (repeated)	n	8	Zero left-padding	Current month meter reading SAHLWBP	Custom (sub data element 48:21)	48
		Previous Meter Reading 2	n	8	Zero left-padding	SLAWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:22)	48

		(repeated)					
		Current Meter Reading 2 (repeated)	n	8	Zero left-padding	SAHWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:23)	48
		Previous Meter Reading 3 (repeated)	n	8	Zero left-padding	SLAKVARH Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:24)	48
		Current Meter Reading 3 (repeated)	n	8	Zero left-padding	SAHKVARH Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:25)	48

3. Payment Response Message

Message Type Identifier   : 2210
Sender   : MitraSymphoni
Tujuan   : Pembayaran Tagihan

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2210= Payment response	YES	
2	BitMap		h	16		Primary Bit Map 5032004182810000= use field 2, 4 11, 12, 15, 26, 32, 33, 39, 41 48 of ISO8583:2003 Data Element		1
3	Length of PAN		n	2	Zero left	Length of PAN 05	YES	2

					padding			
4	Primary Account Number (PAN)		n	5		99501 (Kode Produk Postpaid)	YES	2
5	Transaction Amount		n	16		Must be identical to same field in inquiry response message	YES	4
		ISO Currency Code	n	3		Must be identical to same field in inquiry response message	YES	4
		Currency Minor Unit	n	1		Must be identical to same field in inquiry response message	YES	4
		Value Amount	n	12	Zero left padding	Must be identical to same field in inquiry response message		
6	Switcher Trace Audit Number		n	12	Zero left padding	Must be identical to same field in inquiry response message	YES	11

7	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Date time of local transactions	YES	12
8	Date Settlement		n	8	CCYYMMDD	Date of settlement (refer to PLN cut-off for reconciliation purpose) For instance, if cut- off at 16:00:00 (PLN Gateway Time), then all payment start from 16:00:01 must be reconciled as next-day transaction	YES	15
9	Merchant Category Code		n	4		Must be identical to same field in inquiry response message	YES	26
10	Length of Bank Code		n	2	Zero left-padding	Must be identical to same field in inquiry response message		32

11	Bank Code		an	7	Zero left-padding	Must be identical to same field in inquiry response message	YES	32
12	Length of partner central ID		n	2	Zero left-padding	Must be identical to same field in inquiry response message \		33
13	Partner Central ID		n	7	Zero left-padding	Must be identical to same field in inquiry response message	YES	33
14	Terminal ID		ans	16	Zero left-padding	Must be identical to same field in inquiry response message	YES	41
15	Response Code		n	4		0000=successful\n\n0004= ERROR-Unregistered bills\n\n0005= ERROR-Other		

						0006= ERROR-Blocked partner Central		
						0007= ERROR-Blocked Terminal		
						0008= ERROR-Invalid access-time		
						0011= ERROR-Nedd to sign-on		
						0013= ERROR-Invalid Transaction Amount		
						0014= ERROR-Unknown Subscriber		
						0030= ERROR-Invalid Message		
						0031= ERROR-Unregistered Bank Code		
						0032= ERROR-Unregistered Partner		

						Central		
						0033= ERROR-Unregistered Product		
						0034= ERROR-Unregistered Terminal		
						0045= ERROR-Invalid admin Charges		
						0068= ERROR-Timeout		
						0069= ERROR-Timeout from PLN and		
						payment have been reversal by switching		
						0088= ERROR-Bills already paid		
						0090= ERROR-Cut-off is in progress		
						0092= ERROR-Switcher Reference		

						Number is not available		
						0093= ERROR-Invalid Switcher Trace		
						Audit Number		
						0097= ERROR-Switching ID and/or Bank		
						Code is not identical with inquiry		
						0098= ERROR-PLN Rference Number is		
						not valid		
16	Length of Additional Private Data		n	3	Zero left-padding	Length of additional private data (sub field of data element 48) for MTI=2200 Sum of sub-fields length	YES	48

						233 if PS=1 344 if PS=2 455 if PS=3 566 if PS=4		
17	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Must be identical to same field in inquiry response message	Custom (sub data element 48:1)	48
		Subscriber ID	n	12	Space left-padding	Must be identical to same field in inquiry response message	Custom (sub data element 48:2)	48
		Bill Status (BS)	n	1		Status of subscribe bills 1=Biller send 1 bill 1=Biller send 2 bills	Custom (sub data element 48:3)	48

						1=Biller send 3 bills		
						1=Biller send 4 bills		
						Available if RC=0000		
		Payment Status (PS)	n	1		Number of bill will be paid (currently must be equal to Bill Status) Valid values [1..4]	Custom (sub data element 48:4)	48
		Total Outstanding Bill	n	2		Number of outstanding bills 01=1 total outstanding bills .... Nn=nn total outstanding bills Available if RC=0000 and BS in [1..4]	Custom (sub data element 48:4)	48
		Switcher Reference	an	32		Switcher Reference Number Available if	Custom (sub data	48

		Number				RC=0000	element 48:6)	
		Subscriber Name	an	25	Space right-padding	Nama Pelanggan Available if RC=0000	Custom (sub data element 48:7)	48
		Service Unit (SU)	an	5	Space right-padding	Service Unit (KDUP) Available if RC=0000 and BS in [1..4]	Custom (sub data element 48:8)	48
		Service Unit Phone(SUP)	n	15		Service Unit Phone (SUP) Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:9)	48
		Subscriber Segmentation	an	4	Space right-padding	Customer Segmentation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:10)	48

		Power Consuming Category	n	9	Zero left-padding	Power Consuming Category Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:11)	48
		Total Admin Charges	n	9	Zero left-padding	Total Administration Charges	Custom (sub data element 48:12)	48
		Bill Period (repeated)	n	6	CCYYMM	Month and Year (BLTH) of bill to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:13)	48
		Due Date (repeated)	n	8	DDMMCCYY	Due date of bill payment Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:14)	48

		Meter Read Date (repeated)	n	8	DDMMCCYY	Date when the subscribed meter was read. Currently is reserved (not available yet) and set to CCYYMMDD Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:15)	48
		Total Electricity Bill (Repeated)	n	11	Zero left-padding	Electricity bill (RPTAG) to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:16)	48
		Incentive (Repeated)	xn	11		Eletricity bill incentive Available if	Custom (sub data element	48

						RC=0000 & BS in [1..4] 00000000000=incentive (Total Electricity bill contains incentive value 000000000000=discentive (Total Electricity bill contains discentive value)	48:17)	
		Value Added Tax* (repeated)	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:18)	48
		Penalty Fee (repeated)	n	9	Zero left-padding	Penalty fee (RPBK) to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:19)	48

		Previous Meter Reading 1 (repeated)	n	8	Zero left-padding	Last month meter reading SLALWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:20)	48
		Current Meter Reading 1 (repeated)	n	8	Zero left-padding	Current month meter reading SAHLWBP	Custom (sub data element 48:21)	48
		Previous Meter Reading 2 (repeated)	n	8	Zero left-padding	SLAWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:22)	48

		Current Meter Reading 2 (repeated)	n	8	Zero left-padding	SAHWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:23)	48
		Previous Meter Reading 3 (repeated)	n	8	Zero left-padding	SLAKVARH Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:24)	48
		Current Meter Reading 3 (repeated)	n	8	Zero left-padding	SAHKVARH Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:25)	48
18	Length of Info		n	3		Length of Info Text		63

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
	Text							
19	Info Text		ans	999		Custom Message e.g. : Rincian Tagihan Dapat Diakses di www.pln.co.id Atau di PLN Terdekat		63

5. Reversal Request Message

Message Type Identifier   : 2400 / 2401
Sender   : MitraSymphoni
Tujuan   : Pembatalan Pembayaran Tagihan

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2400 / 2401= Reversal request	YES	
2	BitMap		h	16		Primary Bit Map		1

						5030004182810000 = use field 2, 4 11, 12, 26, 32, 33, 39, 41 48 of ISO8583:2003 Data Element		
3	Length of PAN		n	2	Zero left padding	Length of PAN 05	YES	2
4	Primary Account Number (PAN)		n	5		99501 (Kode Produk Postpaid)	YES	2
5	Transaction Amount		n	16		Must be identical to same field in inquiry response message	YES	4
		ISO Currency Code	n	3		Must be identical to same field in inquiry response message	YES	4
		Currency Minor	n	1		Must be identical to same field in inquiry	YES	4

		Unit				response message		
		Value Amount	n	12	Zero left padding	Must be identical to same field in inquiry response message		
6	Switcher Trace Audit Number		n	12	Zero left padding	Must be identical to same field in inquiry response message	YES	11
7	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Date time of local transactions	YES	12
8	Merchant Category Code		n	4		Must be identical to same field in inquiry response message	YES	26
9	Length of Bank Code		n	2	Zero left-padding	Must be identical to same field in inquiry response message		32

10	Bank Code		an	7	Zero left-padding	Must be identical to same field in inquiry response message	YES	32
11	Length of partner central ID		n	2	Zero left-padding	Must be identical to same field in inquiry response message \		33
12	Partner Central ID		n	7	Zero left-padding	Must be identical to same field in inquiry response message	YES	33
13	Terminal ID		ans	16	Zero left-padding	Must be identical to same field in inquiry response message	YES	41
14	Length of Additional Private Data		n	3	Zero left-padding	Length of additional private data (sub field of data element 48) for MTI=2200 Sum of sub-fields	YES	48

						length		
						233 if PS=1		
						344 if PS=2		
						455 if PS=3		
						566 if PS=4		
15	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Must be identical to same field in inquiry response message	Custom (sub data element 48:1)	48
		Subscriber ID	n	12	Space left-padding	Must be identical to same field in inquiry response message	Custom (sub data element 48:2)	48
		Bill Status (BS)	n	1		Status of subscribe bills 1=Biller send 1 bill 1=Biller send 2 bills	Custom (sub data element 48:3)	48

						1=Biller send 3 bills 1=Biller send 4 bills Available if RC=0000		
		Payment Status (PS)	n	1		Number of bill will be paid (currently must be equal to Bill Status) Valid values [1..4]	Custom (sub data element 48:4)	48
		Total Outstandin g Bill	n	2		Number of outstanding bills 01=1 total outstanding bills .... Nn=nn total outstanding bills Available if RC=0000 and BS in [1..4]	Custom (sub data element 48:4)	48
		Switcher	an	32		Switcher Reference	Custom	48

		Reference Number				Number Available if RC=0000	(sub data element 48:6)	
		Subscriber Name	an	25	Space right-padding	Nama Pelanggan Available if RC=0000	Custom (sub data element 48:7)	48
		Service Unit (SU)	an	5	Space right-padding	Service Unit (KDUP) Available if RC=0000 and BS in [1..4]	Custom (sub data element 48:8)	48
		Service Unit Phone(SUP)	n	15		Service Unit Phone (SUP) Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:9)	48
		Subscriber Segmentation	an	4	Space right-padding	Customer Segmentation Available if RC=0000 & BS in	Custom (sub data element 48:10)	48

					[1..4]		
		Power Consuming Category	n	9	Zero left-padding	Power Consuming Category Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:11)	48
		Total Admin Charges	n	9	Zero left-padding	Total Administration Charges	Custom (sub data element 48:12)	48
		Bill Period (repeated)	n	6	CCYYMM	Month and Year (BLTH) of bill to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:13)	48
		Due Date (repeated)	n	8	DDMMCCYY	Due date of bill payment Available if RC=0000 & BS in	Custom (sub data element 48:14)	48

						[1..4]		
		Meter Read Date (repeated)	n	8	DDMMCCYY	Date when the subscribed meter was read. Currently is reserved (not available yet) and set to CCYYMMDD Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:15)	48
		Total Electricity Bill (Repeated)	n	11	Zero left-padding	Electricity bill (RPTAG) to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:16)	48
		Incentive	xn	11		Eletricity bill incentive	Custom (sub data	48

		(Repeated)				Available if RC=0000 & BS in [1..4] 00000000000=incentive (Total Electricity bill contains incentive value 000000000000=discentive (Total Electricity bill contains discentive value)	element 48:17)	
		Value Added Tax* (repeated)	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:18)	48
		Penalty Fee (repeated)	n	9	Zero left-padding	Penalty fee (RPBK) to be paid Available if	Custom (sub data element 48:19)	48

						RC=0000 & BS in [1..4]		
		Previous Meter Reading 1 (repeated)	n	8	Zero left-padding	Last month meter reading SLALWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:20)	48
		Current Meter Reading 1 (repeated)	n	8	Zero left-padding	Current month meter reading SAHLWBP	Custom (sub data element 48:21)	48
		Previous Meter Reading 2 (repeated)	n	8	Zero left-padding	SLAWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:22)	48

		Current Meter Reading 2 (repeated)	n	8	Zero left-padding	SAHWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:23)	48
		Previous Meter Reading 3 (repeated)	n	8	Zero left-padding	SLAKVARH Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:24)	48
		Current Meter Reading 3 (repeated)	n	8	Zero left-padding	SAHKVARH Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:25)	48
16	Length Of		n	2		Length of Original	YES	56

						Data Element 37		
	Original Data Element							
17	Original Data Element							
		Original MTI	n	4		MTI of Payment 2200	Custom (sub data element 56:1)	56
		Original Partner Central Trace Audit Number	n	12		Original Switcher Reference Number in payment Request message	Custom (sub data element 56:2)	56
		Original Date & Time Local Transactio	n	4	CCYYMMDDhhm	Original Date & Time Local Transaction in	Custom (sub	56

		n			mss	payment request message	data element 56:3)	
		Original Bank Code	n	7	Zero left-padding	Original Bank Code in payment request message	Custom (sub data element 56:4)	56

6. Reversal Response Message

Message Type Identifier : 2401 / 2411
Sender : MitraSymphoni
Tujuan : Pembayaran Pembayaran Tagihan

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element

1	MTI		n	4		Message Type Indicator		
						2410 / 2411= Reversal response	YES	
2	BitMap		h	16		Primary Bit Map 5032004182810000= use field 2, 4 11, 12, 15, 26, 32, 33, 39, 41 48 of ISO8583:2003 Data Element		1
3	Length of PAN		n	2	Zero left padding	Length of PAN 05	YES	2
4	Primary Account Number (PAN)		n	5		99501 (Kode Produk Postpaid)	YES	2
5	Transaction Amount		n	16		Must be identical to same field in inquiry response message	YES	4
		ISO Currency Code	n	3		Must be identical to same field in inquiry response message	YES	4
		Currency	n	1		Must be identical to same field in inquiry	YES	4

		Minor Unit				response message		
		Value Amount	n	12	Zero left padding	Must be identical to same field in inquiry response message		
6	Switcher Trace Audit Number		n	12	Zero left padding	Must be identical to same field in inquiry response message	YES	11
7	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Date time of local transactions	YES	12
8	Merchant Category Code		n	4		Must be identical to same field in inquiry response message	YES	26
9	Length of Bank Code		n	2	Zero left-padding	Must be identical to same field in inquiry response message		32
10	Bank Code		an	7	Zero left-padding	Must be identical to same field in inquiry response message	YES	32

11	Length of partner central ID		n	2	Zero left-padding	Must be identical to same field in inquiry response message \		33
12	Partner Central ID		n	7	Zero left-padding	Must be identical to same field in inquiry response message	YES	33
13	Response Code (RC)		n	4		0000=successful 0004= ERROR-Unregistered biller 0005= ERROR-Other 0006= ERROR-Blocked partner Central 0007= ERROR-Blocked Terminal 0008= ERROR-Invalid access-time 0011= ERROR-Nedd to sign-on	YES	39

						0012= ERROR-Settlement had been done
						0013= ERROR-Invalid Transaction Amount
						0014= ERROR-Unknown Subscriber
						0030= ERROR-Invalid Message
						0031= ERROR-Unregistered Bank Code
						0032= ERROR-Unregistered Switching
						0033= ERROR-Unregistered Product
						0034= ERROR-Unregistered terminal

						0063= ERROR-No payment		
						0068= ERROR-Timeout		
						0088= ERROR-Bills already paid		
						0089= ERROR-Current bill is not available		
						0090= ERROR-Cut-off is in progress		
						0092= ERROR-Invalid Switcher Reference		
						Number		
						0093= ERROR-Invalid Number Central		
						Trace Audit Number		
						0094= ERROR-Reversal had been done		

						0097= ERROR-Switching ID and/or Bank Code is not identical with payment 0098=ERROR-PLN Reference Number is not valid		
14	Terminal ID		ans	16	Zero left-padding	Must be identical to same field in inquiry response message	YES	41
15	Length of Additional Private Data		n	3	Zero left-padding	Length of additional private data (sub field of data element 48) for MTI=2200 Sum of sub-fields length 233 if PS=1	YES	48

						344 if PS=2 455 if PS=3 566 if PS=4		
16	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Must be identical to same field in inquiry response message	Custom (sub data element 48:1)	48
		Subscriber ID	n	12	Space left-padding	Must be identical to same field in inquiry response message	Custom (sub data element 48:2)	48
		Bill Status (BS)	n	1		Status of subscribe bills 1=Biller send 1 bill 1=Biller send 2 bills 1=Biller send 3 bills	Custom (sub data element 48:3)	48

						1=Biller send 4 bills Available if RC=0000		
		Payment Status (PS)	n	1		Number of bill will be paid (currently must be equal to Bill Status) Valid values [1..4]	Custom (sub data element 48:4)	48
		Total Outstandin g Bill	n	2		Number of outstanding bills 01=1 total outstanding bills .... Nn=nn total outstanding bills Available if RC=0000 and BS in [1..4]	Custom (sub data element 48:4)	48
		Switcher Reference Number	an	32		Switcher Reference Number Available if RC=0000	Custom (sub data element 48:6)	48

		Subscriber Name	an	25	Space right-padding	Nama Pelanggan Available if RC=0000	Custom (sub data element 48:7)	48
		Service Unit (SU)	an	5	Space right-padding	Service Unit (KDUP) Available if RC=0000 and BS in [1..4]	Custom (sub data element 48:8)	48
		Service Unit Phone(SUP)	n	15		Service Unit Phone (SUP) Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:9)	48
		Subscriber Segmentation	an	4	Space right-padding	Customer Segmentation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:10)	48
		Power	n	9	Zero	Power Consuming	Custom	48

		Consuming Category			left-padding	Category Available if RC=0000 & BS in [1..4]	Category (sub data element 48:11)	
		Total Admin Charges	n	9	Zero left-padding	Total Administration Charges	Custom (sub data element 48:12)	48
		Bill Period (repeated)	n	6	CCYYMM	Month and Year (BLTH) of bill to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:13)	48
		Due Date (repeated)	n	8	DDMMCCYY	Due date of bill payment Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:14)	48
		Meter	n	8	DDMMCCYY	Date when the	Custom	48

		Read Date (repeated)				subscribed meter was read. Currently is reserved (not available yet) and set to CCYYMMDD Available if RC=0000 & BS in [1..4]	(sub data element 48:15)	
		Total Electricity Bill (Repeated)	n	11	Zero left-padding	Electricity bill (RPTAG) to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:16)	48
		Incentive (Repeated)	xn	11		Eletricity bill incentive Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:17)	48

						00000000000=ince ntive (Total Electricity bill contains incentive value 000000000000=dis centive (Total Electricity bill contains discentive value)		
		Value Added Tax* (repeated)	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:18)	48
		Penalty Fee (repeated)	n	9	Zero left-padding	Penalty fee (RPBK) to be paid Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:19)	48

		Previous Meter Reading 1 (repeated)	n	8	Zero left-padding	Last month meter reading SLALWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:20)	48
		Current Meter Reading 1 (repeated)	n	8	Zero left-padding	Current month meter reading SAHLWBP	Custom (sub data element 48:21)	48
		Previous Meter Reading 2 (repeated)	n	8	Zero left-padding	SLAWBP Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:22)	48
		Current	n	8	Zero left-padding	SAHWBP	Custom (sub data	48

		Meter Reading 2 (repeated)				Available if RC=0000 & BS in [1..4]	element 48:23)	
		Previous Meter Reading 3 (repeated)	n	8	Zero left-padding	SLAKVARH Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:24)	48
		Current Meter Reading 3 (repeated)	n	8	Zero left-padding	SAHKVARH Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:25)	48
17	Length of original data element		n	2		Length of Original Data Element 37		56
18	Original							

	Data Element							
		Original MTI	n	4		Identical to same field in reversal request message	Custom (sub data element 56:1)	56
		Original Partner Central Trace Audit Number	n	12		Original Switcher Reference Number in payment Request message	Custom (sub data element 56:2)	56
		Original Date & Time Local Transaction	n	14	CCYYMMDDhhmmss	Identical to same field in reversal request message	Custom (sub data element 56:3)	56

		Original Bank Code	n	7	Zero left-padding	Identical to same field in reversal request message	Custom (sub data element 56:4)	56

RC ERROR:

0005 : ERROR-Other
0006 : ERROR-blocked partner central
0007 : ERROR-blocked terminal
0013 : ERROR-Invalid Transaction Amount
0014 : ERROR-ID Pelanggan Salah
0015 : ERROR-ID Pelanggan Salah

0017 : ERROR-Subscriber still have bills to pay

0030 : ERROR-Format Salah

0031 : ERROR-Unregistered Bank Code

0032 : ERROR-Unregistered Switching

0033 : ERROR-Unregistered Product

0034 : ERROR-Unregistered Terminal

0040 : ERROR-Stok kosong

0041 : ERROR-Transaction Amount below minimum purchase amount

0042 : ERROR-Transaction Amount exceed maximum purchase amount

0045 : ERROR-Invalid admin charge

0046 : ERROR-Insufficient Deposit

0047 : ERROR-Total KWH is over the limit

0063 : ERROR-No Payment

0068 : ERROR-Time out

0077 : ERROR-Subscriber suspended

0088 : ERROR-Bills already paid

0089 : ERROR-Current bill is not available

0090 : ERROR-Cut-off is in progress

0092 : ERROR-Invalid Starlink Solusi Reference Nuumber

0093 : ERROR-Invalid Partner Central Trace Audit Number

0094 : ERROR-Reversal had been done

0097 : ERROR-Switching ID and / or Bank Code is not identical with payment

0098 : ERROR-PLN Ref Number is not valid

LAMPIRAN SAMPLE MESSAGE

SENDING :
21004030004180810000059950100000684116620140319133422602107451001707451020600000000000
0047701900000000537612266148

RECEIVE :

2110503000418281000005995013600000000178403000006841166201403191334226021074510017074510206000000000000000000047734

PAYMENT SENDING :
2200503000418081000005995013600000000178403000006841166201403191334236021074510017074510206000000000000477344ST145S3537612266148220245102065376122661489538010000000ASMALI 53761123
R1000000900000032002014022002201400000000000000083837D000000000000000000000000006000007390000075310000000000000000000000000000000000020140320032014000000000000000085366D00000000000000000000000000000000000007531000076750000000000000000000000000000000000000

PAYMENT RECEIVE :
2210503200418281000005995013600000000178403000006841166201403191334232014031960210745100170745102060000000000000000000477344ST145S3537612266148220245102065376122661489538010000000ASMALI   53761123
R1000000900000032002014022002201400000000000000083837D000000000000000000000000006000007390000075310000000000000000000000000000000000020140320032014000000000000000085366D00000000000000000000000000000000000007531000076750000000000000000000000000000000000000