

Technical Specifications

Symphoni ISO 8583 - PLN Prepaid

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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

```
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 =
"2100403000418081000005995040000105812672014050515204060210745100170745102060000000000000979031000000022111
23652100000000000000";

        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 PREPAID

1. Inquiry Request Message

Message Type Identifier : 2100

Sender : MitraSymphoni
Tujuan : Memeriksa data 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 4030004100010000 = use field 2, 11, 12, 26, 32, 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		99502 (Kode Produk Prepaid)	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	CCYYMMDDhhmmss	Date & Time of local transaction	YES	12
7	Merchant Category Code		n	4		6010=Teller 6011=ATM 6012=POS 6013=AutoDebit/giralisasi 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 ID	an	7	Zero left-padding	Switcher Identification Code (Provided by PLN) 0000000	Custom (sub data element 48:1)	48
		Material Number	n	11		Material Serial Number	Custom (sub data element 48:2)	48
		Subscriber ID	n	12	Space left-padding	IDPEL 000000000000	Custom (sub data element	48

							48:3)	
		Flag	n	1		0 = Material serial number yang digunakan sebagai input ID PEL 1 = Subscriber ID yang digunakan sebagai input IDPEL	Custom (sub data element 48:4)	48

2. Inquiry Response Message

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

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

2	BitMap		h	16		Primary Bit Map 4032004102010000 = use field 2, 11, 12, 26, 32, 33, 39, 41, 48, 62 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		99502 (Kode Produk Prepaid)	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	CCYYMMDDhhmmss	Date & Time of local transaction	YES	12
7	Merchant Category Code		n	4		6010=Teller 6011=ATM 6012=POS 6013=AutoDebit/giralisasi 6014=Internet 6015=Kiosk 6016=Phone Banking/Call Center	YES	26

						6017=Mobile Banking 6018=EDC		
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	Response Code (RC)		n	4		0000=Successful 0005=ERROR-Other 0011=ERROR-Need to sign-on 0014=ERROR-Unkn own subscriber 0030=ERROR-Invalid message 0031=ERROR-Unregistered Bank Code 0032=ERROR-Unregistered Switching 0034=ERROR-Unregistered terminal	YES	39

						0033=ERROR- Unregistered Product 0068=ERROR-Time out 0077=ERROR-Subs criber Suspended 0090=ERROR-Cut-o ff is in progress		
13	Terminal ID		ans	16	Zero left-padding	Kode loket / terminal mitra	YES	41
14	Length of Additional Private Data		n	3	Zero left-padding	Length of additional private data (sub field of dta element 48) for MTI=2110 Sum of sub-fields length 031 if RC!=0000 144 if RC= 0000	YES	48
15	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Switcher Identification Code (Provided by PLN) 0000000	Custom (sub data element 48:1)	48

		Material Number	n	11		Material Serial Number	Custom (sub data element 48:2)	48
		Subscriber ID	n	12	Space left-padding	IDPEL 000000000000	Custom (sub data element 48:3)	48
		Flag	n	1		0 = Material serial number yang digunakan sebagai input ID PEL 1 = Subscriber ID yang digunakan sebagai input IDPEL	Custom (sub data element 48:4)	48
		PLN Reference Number	an	32		PLN Reference Number Available if RC=0000	Custom (sub data element 48:5)	48
		Switcher Reference Number	an	32		PLN 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

		Subscriber Segmentat ion	an	4	Space right-padding	Customer Segmentation Available if RC=0000	Custom (sub data element 48:8)	48
		Power Consumin g Category	n	9		Power Consuming Category Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:9)	48
		Minor Unit of admin charger	n	1		Minor unit admin charge (RESERVED) Available IF RC=0000 2 = Means last 2 digit of admin charge amount are decimal value	Custom (sub data element 48:10)	48
		Admin Charges	n	9	Zero left-padding	Total Administration Charges Available if RC=0000	Custom (sub data element 48:11)	48
16	Length of additional private data #2		n	3	Zero left-padding	Length of additional private data(sub fields or data element 62) for MTI=2110	YES	62
		Distributio n code	an	2			Custom (sub data element 62:1)	62

		Service Unit	an	5			Custom (sub data element 62:2)	62
		Service phone unit	n	15			Custom (sub data element 62:3)	62
		Max KWH unit	n	5		Max KWH unit limit allowed to buy Available if RC=0000	Custom (sub data element 62:4)	62
		Total repeat	n	1		0.2	Custom (sub data element 62:5)	62
		Power purchase unsold(PP) \ (Repeat)	n	11		Purchase KWH Unit Available if RC=0000 Unsold exist. Exsample : 000000000000	Custom (sub data element 62:6)	62

3. Purchase Request Message

Message Type Identifier : 2200

Sender : MitraSymphoni

Tujuan : Pembelian token

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2200= purchase request	YES	
2	BitMap		h	16		Primary Bit Map 5030004180810004= use field 2, 4 11, 12, 15, 26, 32, 33, 41, 48, 62 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		99502 (Kode Produk Prepaid)	YES	2
5	Transaction Amount		n	16			YES	4
		ISO Currency	n	3		ISO Currency Code	YES	4

		Code				Indonesian Rupiah =360		
		Currency Minor Unit	n	1		Number is decimal value 0 = no decimal value N = n last digit of value amount are decimal value	YES	4
		Value Amount	n	12		Purchase amount for vending credit	YES	4
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 6012=POS 6013=AutoDebit/girali sasi 6014=Internet 6015=Kiosk 6016=Phone Banking/Call Center 6017=Mobile Banking 6018=EDC	YES	26

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	Terminal ID		ans	16	Zero left-padding	Kode loket / terminal mitra	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 length 145	YES	48
15	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Switcher Identification Code (Provided by PLN) 0000000	Custom (sub data element 48:1)	48

		Material Number	n	11		Material Serial Number	Custom (sub data element 48:2)	48
		Subscriber ID	n	12	Space left-padding	IDPEL 000000000000	Custom (sub data element 48:3)	48
		Flag	n	1		0 = Material serial number yang digunakan sebagai input ID PEL 1 = Subscriber ID yang digunakan sebagai input IDPEL	Custom (sub data element 48:4)	48
		PLN Reference Number	an	32	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:5)	48
		Switcher Receipt Reference Number	an	32	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:6)	48
		Subscriber Name	an	25	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:7)	48

		Subscriber segmentat ion	an	4	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:8)	48
		Power consuming category	n	9	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:9)	48
		Minor Unit of admin charge	n	1		Must be Identical to same field in inquiry response message	Custom (sub data element 48:10)	48
		Admin charge	n	10	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:10)	48
		Buying option	n	1		0 = buy new token 1 = buy 1 st token unsold 2 = buy 2 nd token unsold	Custom (sub data element 48:11)	48
16	Length of additionalprivate data #2		n	3	Zero left-padding	Length of additional private data(sub fields or data element 62) for MTI=2110	YES	62
17	Additional private data #2							

		Distribution code	an	2		Must be Identical to same field in inquiry response message	Custom (sub data element 62:1)	62
		Service Unit	an	5		Must be Identical to same field in inquiry response message	Custom (sub data element 62:2)	62
		Service phone unit	n	15	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:3)	62
		Max KWH unit	n	5	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:4)	62
		Total repeat	n	1		Must be Identical to same field in inquiry response message	Custom (sub data element 62:5)	62
		Power purchase unsold(PP) (Repeat)	n	11	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:6)	62

4. Purchase Response Message

Message Type Identifier : 2210
Sender : MitraSymphoni
Tujuan : Pembelian token

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2210= Purchase response	YES	
2	BitMap		h	16		Primary Bit Map 5032004182810006 = use field 2, 4 11, 12,15, 26, 32, 33, 41, 48, 62, 63 of ISO8583:2003 Data Element		1
3	Length of PAN		n	2	Zero left padding	Length of PAN 05	YES	2
4	Primary Account		n	5		99502 (Kode Produk	YES	2

	Number (PAN)					Prepaid)		
5	Transaction Amount		n	16			YES	4
		ISO Currency Code	n	3		ISO Currency Code Indonesian Rupiah =360	YES	4
		Currency Minor Unit	n	1		Number is decimal value 0 = no decimal value N = n last digit of value amount are decimal value	YES	4
		Value Amount	n	12		Purchase amount for vending credit	YES	4
6	Switcher Trace Audit Number		n	12	Zero left padding	Transaksi ID mitra Symphoni	YES	11
7	Date & Time, Local Transaction		n	14	CCYYMMDDhhmmss	Date & Time of local transaction	YES	12
8	Date Settlement		n	8	CCYYMMDD	Date of settlement (refer to PLN cut-off for reconciliation)	YES	15

						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		
9	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
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		n	4		0000=successful 0005= ERROR-Other 0011= ERROR-Nedd to sign-on 0013= ERROR-Invalid Transaction Amount 0014= ERROR-Unknown Subscriber 0030= ERROR-Invalid Message 0031= ERROR-Unregistere d Bank Code 0032= ERROR-Unregistered Switching 0033= ERROR-Unregistered Product 0041= ERROR-Transaction Amount below minimum purchase amount 0042= ERROR-Transaction Amount	YES	39

						<p>exceed maximum purchase amount</p> <p>0045= ERROR-Invalid admin charge</p> <p>0046= ERROR-Insufficient Deposit</p> <p>0047= ERROR-Total KWH in over the limit</p> <p>0068= ERROR-Timeout</p> <p>0088= ERROR-Bills already paid</p> <p>0089= ERROR-Current Bill is not available</p> <p>0090= ERROR-Cut-off is in progress</p> <p>0092= ERROR-Switcher Receipt</p> <p>0093= ERROR-Invalid Switcher Reference Number</p> <p>0097= ERROR-Switching ID</p>		
--	--	--	--	--	--	---	--	--

						and/or Bankcode is not identical with inquiry		
						0098= ERROR-PLN Ref Number is not valid		
13	Terminal ID		ans	16	Zero left-padding	Kode loket / terminal mitra	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 length 145	YES	48
15	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Switcher Identification Code (Provided by PLN) 0000000	Custom (sub data element 48:1)	48
		Material Number	n	11		Material Serial Number	Custom (sub data element 48:2)	48
		Subscriber ID	n	12	Space left-padding	IDPEL 000000000000	Custom (sub data	48

							element 48:3)	
		Flag	n	1		0 = Material serial number yang digunakan sebagai input ID PEL 1 = Subscriber ID yang digunakan sebagai input IDPEL	Custom (sub data element 48:4)	48
		PLN Reference Number	an	32	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:5)	48
		Switcher Receipt Reference Number	an	32	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:6)	48
		Vending Receive Number	n	8	Zero left-padding	Available if RC=0000	Custom (sub data element 48:7)	48
		Subscriber Name	an	25	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:7)	48
		Subscriber	an	4	Space	Must be Identical to	Custom (sub	48

		segmentation			right-padding	same field in inquiry response message	data element 48:8)	
		Power consuming category	n	9	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:9)	48
		Buying option	n	1		0 = buy new token 1 = buy 1 st token unsold 2 = buy 2 nd token unsold	Custom (sub data element 48:11)	48
		Minor Unit of admin charge	n	1		Must be Identical to same field in inquiry response message	Custom (sub data element 48:10)	48
		Admin charge	n	10	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:10)	48
		Minor stamp of duty	n	1		Available if RC=0000 2 = means last 2 digit of stump duty	Custom (sub data element 48:12)	48
		Stamp Duty	n	10		Available if RC=0000 2 = means last 2 digit	Custom (sub data element 48:12)	48

						of stump duty	48:13)	
		Minor Unit of value add tax	n	1		Available if RC=0000 2 = means last 2 digit of value add tax	Custom (sub data element 48:14)	48
		Value add tax	n	10	Zero left-padding	Available if RC=0000 0000000000	Custom (sub data element 48:15)	48
		Minor unit of public lighting tax	n	1		Available if RC=0000 2 = means last 2 digit of public lighting tax amount	Custom (sub data element 48:16)	48
		Public lighting tax	n	10		Available if RC=0000 0000000000	Custom (sub data element 48:17)	48
		Minor unit of customer payable installment	n	1		Available if RC=0000 2 = means last 2 digit of stump duty amount	Custom (sub data element 48:18)	48
		Costumer payable installment	n	10	Zero left-padding	Available if RC=0000 0000000000	Custom (sub data element 48:19)	48

		Minor unit of power purchase	n	1		Available if RC=0000 2 = means last 2 digit of power purchase	Custom (sub data element 48:20)	48
		Power purchase	n	12	Zero left-padding	Available if RC=0000 000000000000	Custom (sub data element 48:21)	48
		Minor unit of Power purchase KWH unit	n	1		Available if RC=0000 2 = means last 2 digit of power purchase	Custom (sub data element 48:22)	48
		Purchase KWH unit	n	10	Zero left-padding	Available if RC=0000 0000000000	Custom (sub data element 48:23)	48
		Token number	n	20		Available if RC=0000 00000000000000000000	Costum (sub data element 48:24)	48

16	Length of additional private data #2		n	3	Zero left-padding	Length of additional private data(sub fields or data element 62) for MTI=2110	YES	62
17	Additional private data #2							
		Distribution code	an	2		Must be Identical to same field in inquiry response message	Custom (sub data element 62:1)	62
		Service Unit	an	5		Must be Identical to same field in inquiry response message	Custom (sub data element 62:2)	62
		Service phone unit	n	15	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:3)	62
		Max KWH unit	n	5	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element	62

							62:4)	
		Total repeat	n	1		Must be Identical to same field in inquiry response message	Custom (sub data element 62:5)	62
		Power purchase unsold(PP) (Repeat)	n	11	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:26)	62
18	Length of info text		n	3		Length of info text	Custom (sub data element 63:1)	63
19	Info text		ans	999		Custom message	Custom (sub data element 63:2)	63

5. Purchase Advice Message

Message Type Identifier : 2220 / 2221

Sender : MitraSymphoni

Tujuan : Kirim ulang pembelian token untuk memeriksa pembelian token sebelumnya

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003
-------	------	-----------	------	-----	--------	-------------	--------------

							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2220= Advice request	YES	
2	BitMap		h	16		Primary Bit Map 5032004182810006= use field 2, 4 11, 12,15, 26, 32, 33, 41, 48, 62, 63 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		99502 (Kode Produk Prepaid)	YES	2
5	Transaction Amount		n	16			YES	4
		ISO Currency Code	n	3		ISO Currency Code Indonesian Rupiah =360	YES	4
		Currency Minor Unit	n	1		Number is decimal value 0 = no decimal value N = n last digit of	YES	4

						value amount are decimal value		
		Value Amount	n	12		Purchase amount for vending credit	YES	4
6	Switcher Trace Audit Number		n	12	Zero left padding	Transaksi ID mitra Symphoni	YES	11
7	Date & Time, Local Transaction		n	14	CCYYMMDDhhm mss	Date & Time of local transaction	YES	12
8	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
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		n	2	Zero	Length of partner		33

	partner central ID				left-padding	central ID 07		
12	Partner Central ID		n	7	Zero left-padding	Customer ID Mitra Symphoni	YES	33
13	Terminal ID		ans	16	Zero left-padding	Kode loket / terminal mitra	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 length 145	YES	48
15	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Switcher Identification Code (Provided by PLN) 0000000	Custom (sub data element 48:1)	48
		Material	n	11		Material Serial Number	Custom (sub	48

		Number					data element 48:2)	
		Subscriber ID	n	12	Space left-padding	IDPEL 000000000000	Custom (sub data element 48:3)	48
		Flag	n	1		0 = Material serial number yang digunakan sebagai input IDPEL 1 = Subscriber ID yang digunakan sebagai input IDPEL	Custom (sub data element 48:4)	48
		PLN Reference	an	32	Space	Must be Identical to same field in inquiry	Custom (sub data	48

		Number			right-padding	response message	element 48:5)	
		Switcher Receipt Reference Number	an	32	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:6)	48
		Subscriber Name	an	25	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:7)	48
		Subscriber segmentat ion	an	4	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:8)	48
		Power consuming category	n	9	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:9)	48
		Minor Unit of admin charge	n	1		Must be Identical to same field in inquiry response message	Custom (sub data element 48:10)	48
		Admin charge	n	10	Zero left-padding	Must be Identical to same field in inquiry	Custom (sub data	48

						response message	element 48:10)	
		Buying option	n	1		0 = buy new token 1 = buy token unsold	Custom (sub data element 48:11)	48
16	Length of additional private data #2		n	3	Zero left-padding	Length of additional private data(sub fields or data element 62) for MTI=2110	YES	62
17	Additional private data #2							
		Distribut ion code	an	2		Must be Identical to same field in inquiry response message	Custom (sub data element	62

							62:1)	
		Service Unit	an	5		Must be Identical to same field in inquiry response message	Custom (sub data element 62:2)	62
		Service phone unit	n	15	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:3)	62
		Max KWH unit	n	5	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element	62

							62:4)	
		Total repeat	n	1		Must be Identical to same field in inquiry response message	Custom (sub data element 62:5)	62
		Power purchase unsold(P P) (Repeat)	n	11	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:6)	62

6. Purchase Advice Response Message

Message Type Identifier : 2230 / 2231

Sender : MitraSymphoni

Tujuan : Kirim ulang pembelian token untuk memeriksa pembelian token sebelumnya

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2210= Purchase response	YES	
2	BitMap		h	16		Primary Bit Map 5032004182810006 = use field 2, 4 11, 12, 15, 26, 32, 33, 41, 48, 62, 63 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		99502 (Kode Produk Prepaid)	YES	2

			n	16			YES	4
5	Transaction Amount		n	16			YES	4
		ISO Currency Code	n	3		ISO Currency Code Indonesian Rupiah =360	YES	4
		Currency Minor Unit	n	1		Number is decimal value 0 = no decimal value N = n last digit of value amount are decimal value	YES	4
		Value Amount	n	12		Purchase amount for vending credit	YES	4
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	Date Settlement		n	8	CCYYMMDD	<p>Date of settlement (refer to PLN cut-off for</p> <p>reconciliation purpose) For instance, if cut-</p> <p>off at 16:00:00 (PLN Gateway Time), then</p> <p>all payment start from 16:00:01 must be</p> <p>reconciled as next-day transaction</p>	YES	15
9	Merchant Category Code		n	4		<p>6010=Teller</p> <p>6011=ATM</p>	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		n	2	Zero left-padding	Length of partner central ID 07		33

	ID							
12	Partner Central ID		n	7	Zero left-padding	Customer ID Mitra Symphoni	YES	33
13	Response Code		n	4		0000=successful 0005= ERROR-Other 0011= ERROR-Nedd to sign-on 0013= ERROR-Invalid Transaction Amount 0014= ERROR-Unknown Subscriber 0030= ERROR-Invalid Message 0031= ERROR-Unregistere	YES	39

						d Bank Code		
						0032= ERROR- Unregistered Switching		
						0033= ERROR- Unregistered Product		
						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		

						<p>0047= ERROR- Total KWH in over the limit</p> <p>0068= ERROR-Timeout</p> <p>0088= ERROR-Bills already paid</p> <p>0089= ERROR-Current Bill is not available</p> <p>0090= ERROR-Cut-off is in progress</p> <p>0092= ERROR-Switcher Receipt</p> <p>0093= ERROR-Invalid Switcher Reference</p> <p>Number</p> <p>0097= ERROR-Switching ID</p>		
--	--	--	--	--	--	---	--	--

						and/or Bank		
						code is not identical with inquiry		
						0098= ERROR-PLN Ref Number is not valid		
13	Terminal ID		ans	16	Zero left-padding	Kode loket / terminal mitra	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 length 145	YES	48
15	Additional Private Data							

		Switcher ID	an	7	Zero left-padding	Switcher Identification Code (Provided by PLN) 0000000	Custom (sub data element 48:1)	48
		Material Number	n	11		Material Serial Number	Custom (sub data element 48:2)	48
		Subscriber ID	n	12	Space left-padding	IDPEL 000000000000	Custom (sub data element 48:3)	48
		Flag	n	1		0 = Material serial number yang digunakan sebagai input ID	Custom (sub data element)	48

						PEL 1 = Subscriber ID yang digunakan sebagai input IDPEL	48:4)	
		PLN Reference Number	an	32	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:5)	48
		Switcher Receipt Reference Number	an	32	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:6)	48
		Vending Receive Number	n	8	Zero left-padding	Available if RC=0000	Custom (sub data element 48:7)	48

		Subscriber Name	an	25	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:7)	48
		Subscriber segment ation	an	4	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:8)	48
		Power consuming category	n	9	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:9)	48
		Buying option	n	1		0 = buy new token 1 = buy token unsold	Custom (sub data element 48:11)	48

		Minor Unit of admin charge	n	1		Must be Identical to same field in inquiry response message	Custom (sub data element 48:10)	48
		Admin charge	n	10	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 48:10)	48
		Minor stamp of duty	n	1		Available if RC=0000 2 = means last 2 digit of stump duty	Custom (sub data element 48:12)	48
		Stamp Duty	n	10		Available if RC=0000 2 = means last 2 digit of stump duty	Custom (sub data element 48:13)	48

		Minor Unit of value add tax	n	1		Available if RC=0000 2 = means last 2 digit of value add tax	Custom (sub data element 48:14)	48
		Value add tax	n	10	Zero left-padding	Available if RC=0000 0000000000	Custom (sub data element 48:15)	48
		Minor unit of public lighting tax	n	1		Available if RC=0000 2 = means last 2 digit of public lighting tax amount	Custom (sub data element 48:16)	48
		Public lighting tax	n	10		Available if RC=0000 0000000000	Custom (sub data element	48

							48:17)	
		Minor unit of customer payable installment	n	1		Available if RC=0000 2 = means last 2 digit of stump duty amount	Custom (sub data element 48:18)	48
		Costume r payable installment	n	10	Zero left-padding	Available if RC=0000 0000000000	Custom (sub data element 48:19)	48
		Minor unit of power purchase	n	1		Available if RC=0000 2 = means last 2 digit of power purchase	Custom (sub data element 48:20)	48

		Power purchase	n	12	Zero left-padding	Available if RC=0000 000000000000	Custom (sub data element 48:21)	48
		Minor unit of Power purchase KWH unit	n	1		Available if RC=0000 2 = means last 2 digit of power purchase	Custom (sub data element 48:22)	48
		Purchase KWH unit	n	10	Zero left-padding	Available if RC=0000 0000000000	Custom (sub data element 48:23)	48
		Token number	n	20		Available if RC=0000 0000000000000000 0000	Costum (sub data element	48

							48:24)	
16	Length of additional private data #2		n	3	Zero left-padding	Length of additional private data(sub fields or data element 62) for MTI=2110	YES	62
17	Additional private data #2							
		Distribution code	an	2		Must be Identical to same field in inquiry response message	Custom (sub data element 62:1)	62
		Service	an	5		Must be Identical to	Custom (sub	62

		Unit				same field in inquiry response message	data element 62:2)	
		Service phone unit	n	15	Space right-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:3)	62
		Max KWH unit	n	5	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:4)	62
		Total repeat	n	1		Must be Identical to same field in inquiry response message	Custom (sub data element	62

						syariah mandiri payment online		
							62:5)	
		Power purchas e unsold(P P) (Repeat)	n	11	Zero left-padding	Must be Identical to same field in inquiry response message	Custom (sub data element 62:26)	62
18	Length of info text		n	3		Length of info text	Custom (sub data element 63:1)	63
19	Info text		ans	999		Custom message	Custom (sub data element 63:2)	63

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 :

210040300041808100000599502000006841163201403191334216021074510017074510206000000000000
0004003100000003401366149000000000000000

RECEIVE :

211040300041828100040599502000006841163201403191334216021074510017074510206000000000000
000000040144ST145S33401366149013224145381300CEB0D596CBD45889A75B5A41FBD9C034510206201
4031913334861236600000ZELYENDRA R1 0000013002000016000000281313451123
009360

PURCHASE SENDING :

22005030004180810004059950236000000000191000000068411632014031913342160210745100170745
10206000000000000000040145ST145S33401366149013224145381300CEB0D596CBD45889A75B5A41FBD9C
0345102062014031913334861236600000ZELYENDRA R1
0000013002000016000000281313451123 009360

PURCHASE RECEIVE :

22105032004182810006059950236000000000191000000068411632014031913342120140319602107451
0017074510206000000000000000000040241ST145S33401366149013224145381300CEB0D596CBD45889A
75B5A41FBD9C03451020620140319133348612366000000000000ZELYENDRA R1
000001300020000160000200000000002000000000200001445002000000000200000160550020000001
640699502378050692345480281313451123 009360060Informasi Hubungi Call Center 123 Atau
hubungi PLN Terdekat