

Technical Specifications

Symphoni ISO 8583 - PLN Nontaglis

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

Contents

1 System Overview.....	3
1.1 Introduction.....	3
2 Module Description.....	3
Pada API Symphoni ISO8583 koneksi yang digunakan adalah Socket TCP/IP. Anda dapat memeriksa koneksi dengan melakukan telnet ke server tujuan.....	3
2.1 TRANSAKSI.....	4

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 :

```
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 =
"21004030004180810000059950400001058126720140505152040602107451001707451020600000000000009790310000000022111
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 NONTAGLIS

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		Primary Bitmap 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		99504 (Kode Produk Nontaglis)	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	Custom (sub data)	48

						(Provided by PLN) 0000000	element 48:1)	
		Registra tion Number	n	13	Space left-padding	IDPEL 000000000000	Custom (sub data element 48:2)	48
		Transact ion Code	n	3	zero left-padding	Transaction Code See Transaction Code List 000	Custom (sub data element 48:3)	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 response	YES	
2	BitMap		h	16		Primary Bitmap 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		99504 (Kode Produk Nontaglis)	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 of decimal value 0=no decimal value n=n-last digits of value amount are decimal values 0	YES	4
		Value Amount	n	12	Zero left padding	Transaction Amount (Total Transaction Amount from DE48 without decimal values) 000000000000		
6	Switcher Trace Audit Number		n	12	Zero left padding	Identical to same field in inquiry request message	YES	11

7	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Identical to same field in inquiry request message	YES	12
8	Merchant Category Code		n	4		Identical to same field in inquiry request message	YES	26
9	Length of Bank Code		n	2	Zero left-padding	Identical to same field in inquiry request message		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		n	7	Zero left-padding	Customer ID Mitra Symphoni	YES	33

	ID							
13	Response Code (RC)		n	4		0000 = successful 0005 = ERROR - Other 0011 = ERROR - Need to sign-on 0015 = ERROR - Unknown Registration Number 0016 = ERROR - PRR Subscriber 0017 = ERROR - Subscriber still have bills to pay 0030 = ERROR - Invalid message 0031 = ERROR - Unregistered Bank Code 0032 = ERROR -	YES	39

						Unregistered Switching 0033 = ERROR - Unregistered Product 0034 = ERROR - Unregistered Terminal 0045 = ERROR - Invalid admin charges 0048 = ERROR - Registration is expired 0068 = ERROR - Timeout in Switching 0088 = ERROR - Bills already paid 0090 = ERROR - Cut-off is in progress		
14	Terminal ID		ans	16	Zero	Kode loket /	YES	41

					left-padding	terminal mitra		
15	Length of Additional Private Data		n	3	Zero left-padding	Length of additional private data (sub field of data element 48) for MTI=2110 Sum of sub-fields length 039 if RC != 0000 221 if RC = 0000	YES	48
15	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Identical to same field in inquiry request message	Custom (sub data element 48:1)	48
		Registration Number	n	13	Space right-padding	Identical to same field in inquiry request message	Custom (sub data element 48:2)	48

		Transaction Code	n	3	zero left-padding	Transaction Code RESERVED Currently always set to 000	Custom (sub data element 48:3)	48
		Transaction Name	ans	25	Space right padding	Transaction name	Custom (sub data element 48:4)	48
		Registration date	an	8	CCYYMMDD	Registration Date in CM@X Available if RC in {0000, 0048}	Custom (sub data element 48:5)	48
		Expiration Date	an	8	CCYYMMDD	Nama Pelanggan Available if RC=0000	Custom (sub data element 48:6)	48
		Subscriber ID	n	12	zero left-padding	Available if RC=0000	Custom (sub data element 48:7)	48

							48:7)	
		Subscriber Name	an	25	Space right-padding	Available if RC=0000	Custom (sub data element 48:8)	48
		PLN Ref Number	an	32		Available if RC=0000	Custom (sub data element 48:9)	48
		Sw reff	an	32	Zero left-padding	Available if RC=0000	Custom (sub data element 48:10)	48
		Service Unit	an	5	Zero left-padding	Available if RC=0000	Custom (sub data element 48:11)	48
		Service Unit Address	an	35	space right-padding	Available if RC=0000	Custom (sub data element 48:12)	48
		Service Unit Phone	ns	15	space right-	Available if RC=0000	Custom (sub data	48

					padding		element 48:13)	
		Total Transactio n Amount Minor Unit	n	1	zero left-padding	Total Transaction Amount Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:14)	48
		Total Transactio n Amount	n	17	Zero left-padding	Total Transaction Amount TA = RPTAG + AC Available if RC=0000 00000000000000000 0	Custom (sub data element 48:15)	48
		PLN-BILL Minor Unit	n	1		PLN-Bill Minor Unit Available if RC=0000	Custom (sub data element 48:16)	48

						Currently always set to 2		
		PLN-BILL Value (RPTAG)	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:17)	48
		Administration Charge Minor Unit	n	1	Zero left-padding	Administration Charge Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:19)	48
		Administration Charge (AC)	n	10	Zero left-padding	Administration Charge Available if RC=0000 0000000000	Custom (sub data element 48:20)	48
17	Length of Additional		n	3	zero left-padding	Length of additional private data #2	YES	62

	Private Data #2					(sub field of data element 62) for MTI=2110 Sum of sub-fields length Available if RC=0000 021		
18	Additional Private Data #2							62
		Bill Component Type	n	2	zero left-padding	Bill Component Type Always set to 01	Custom (sub data element 62:1)	62
		Bill Component Minor Unit	n	1	zero left-padding	Bill Component Minor Unit Always set to 2	Custom (sub data element 62:2)	62
		Bill Component Value	n	17	zero left-padding	Bill Component Value Amount	Custom (sub data element	62

		Amount				00000000000000000000 0	62:3)	
--	--	--------	--	--	--	---------------------------	-------	--

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 Bitmap 5030004180810004 = use field 2, 4, 11, 12, 26, 32, 33,		1

						41, 48, 62 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		99504 (Kode Produk Nontaglis)	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 of decimal value 0=no decimal value n=n-last digits of value amount are decimal values 0	YES	4
		Value	n	12	Zero left	Transaction Amount		

		Amount			padding	(Total Transaction Amount from DE48 without decimal values) 000000000000		
6	Switcher Trace Audit Number		n	12	Zero left padding	Identical to same field in inquiry request message	YES	11
7	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Identical to same field in inquiry request message	YES	12
8	Merchant Category Code		n	4		Identical to same field in inquiry request message	YES	26

9	Length of Bank Code		n	2	Zero left-padding	Identical to same field in inquiry request message		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=2110 Sum of sub-fields length	YES	48

						039 if RC != 0000 221 if RC = 0000		
15	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Identical to same field in inquiry request message	Custom (sub data element 48:1)	48
		Registration Number	n	13	Space right-padding	Identical to same field in inquiry request message	Custom (sub data element 48:2)	48
		Transaction Code	n	3	zero left-padding	Transaction Code RESERVED Currently always set to 000	Custom (sub data element 48:3)	48
		Transaction Name	ans	25	Space right padding	Transaction name	Custom (sub data element 48:4)	48
		Registration date	an	8	CCYYMMDD	Registration Date in CM@X	Custom (sub data	48

						Available if RC in {0000, 0048}	element 48:5)	
		Expiration Date	an	8	CCYYMMDD	Nama Pelanggan Available if RC=0000	Custom (sub data element 48:6)	48
		Subscriber ID	n	12	zero left-padding	Available if RC=0000	Custom (sub data element 48:7)	48
		Subscriber Name	an	25	Space right-padding	Available if RC=0000	Custom (sub data element 48:8)	48
		PLN Ref Number	an	32		Available if RC=0000	Custom (sub data element 48:9)	48
		Sw reff	an	32	Zero left-padding	Available if RC=0000	Custom (sub data element 48:10)	48

		Service Unit	an	5	Zero left-padding	Available if RC=0000	Custom (sub data element 48:11)	48
		Service Unit Address	an	35	space right-padding	Available if RC=0000	Custom (sub data element 48:12)	48
		Service Unit Phone	ns	15	space right-padding	Available if RC=0000	Custom (sub data element 48:13)	48
		Total Transaction Amount Minor Unit	n	1	zero left-padding	Total Transaction Amount Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:14)	48
		Total Transaction	n	17	Zero left-padding	Total Transaction Amount TA = RPTAG + AC	Custom (sub data element 48:15)	48

		Amount				Available if RC=0000 0000000000000000 0		
		PLN-BILL Minor Unit	n	1		PLN-Bill Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:16)	48
		PLN-BILL Value (RPTAG)	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:17)	48
		Administra tion Charge Minor Unit	n	1	Zero left-padding	Administration Charge Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:19)	48

		Administration Charge (AC)	n	10	Zero left-padding	Administration Charge Available if RC=0000 0000000000	Custom (sub data element 48:20)	48
17	Length of Additional Private Data #2		n	3	zero left-padding	Length of additional private data #2 (sub field of data element 62) for MTI=2110 Sum of sub-fields length Available if RC=0000 021	YES	62
18	Additional Private Data #2							62
		Bill	n	2	zero	Bill Component	Custom	62

		Component Type			left-padding	Type Always set to 01	(sub data element 62:1)	
		Bill Component Minor Unit	n	1	zero left-padding	Bill Component Minor Unit Always set to 2	Custom (sub data element 62:2)	62
		Bill Component Value Amount	n	17	zero left-padding	Bill Component Value Amount 000000000000000000 0	Custom (sub data element 62:3)	62

4. Payment Response Message

Message Type Identifier : 2210
Sender : MitraSymphoni
Tujuan : Pembayaran tagihan pelanggan

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 Bitmap 5032004182810006 = use field 2, 4, 11, 12, 15, 26, 32, 33, 39, 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		99504 (Kode Produk Nontaglis)	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 of decimal value 0=no decimal value n=n-last digits of value amount are decimal values 0	YES	4
		Value Amount	n	12	Zero left padding	Transaction Amount (Total Transaction Amount from DE48 without decimal values) 000000000000		
6	Switcher Trace Audit Number		n	12	Zero left padding	Identical to same field in inquiry request message	YES	11

7	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Identical to same field in inquiry request message	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		
9	Merchant Category Code		n	4		Identical to same field in inquiry request message	YES	26

10	Length of Bank Code		n	2	Zero left-padding	Identical to same field in inquiry request message		32
11	Bank Code		an	7	Zero left-padding	Bank Code (defined by Bank Indonesia)	YES	32
12	Length of partner central ID		n	2	Zero left-padding	Length of partner central ID 07		33
13	Partner Central ID		n	7	Zero left-padding	Customer ID Mitra Symphoni	YES	33
14	Response Code (RC)		n	4		0000 = successful 0005 = ERROR - Other 0011 = ERROR - Need to sign-on 0015 = ERROR - Unknown Registration Number	YES	39

						<p>0016 = ERROR - PRR Subscriber</p> <p>0017 = ERROR - Subscriber still have bills to pay</p> <p>0030 = ERROR - Invalid message</p> <p>0031 = ERROR - Unregistered Bank Code</p> <p>0032 = ERROR - Unregistered Switching</p> <p>0033 = ERROR - Unregistered Product</p> <p>0034 = ERROR - Unregistered Terminal</p> <p>0045 = ERROR - Invalid admin charges</p> <p>0048 = ERROR -</p>		
--	--	--	--	--	--	--	--	--

						Registration is expired 0068 = ERROR - Timeout in Switching 0088 = ERROR - Bills already paid 0090 = ERROR - Cut-off is in progress		
15	Terminal ID		ans	16	Zero left-padding	Kode loket / terminal mitra	YES	41
16	Length of Additional Private Data		n	3	Zero left-padding	Length of additional private data (sub field of data element 48) for MTI=2110 Sum of sub-fields length	YES	48

						039 if RC != 0000 221 if RC = 0000		
17	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Identical to same field in inquiry request message	Custom (sub data element 48:1)	48
		Registration Number	n	13	Space right-padding	Identical to same field in inquiry request message	Custom (sub data element 48:2)	48
		Transaction Code	n	3	zero left-padding	Transaction Code RESERVED Currently always set to 000	Custom (sub data element 48:3)	48
		Transaction Name	ans	25	Space right padding	Transaction name	Custom (sub data element 48:4)	48
		Registration	an	8	CCYYMMDD	Registration Date in	Custom	48

		n date				CM@X Available if RC in {0000, 0048}	(sub data element 48:5)	
		Expiration Date	an	8	CCYYMMDD	Nama Pelanggan Available if RC=0000	Custom (sub data element 48:6)	48
		Subscriber ID	n	12	zero left-padding	Available if RC=0000	Custom (sub data element 48:7)	48
		Subscriber Name	an	25	Space right-padding	Available if RC=0000	Custom (sub data element 48:8)	48
		PLN Reff Number	an	32		Available if RC=0000	Custom (sub data element 48:9)	48
		Sw reff	an	32	Zero left-padding	Available if RC=0000	Custom (sub data element 48:10)	48

							48:10)	
		Service Unit	an	5	Zero left-padding	Available if RC=0000	Custom (sub data element 48:11)	48
		Service Unit Address	an	35	space right-padding	Available if RC=0000	Custom (sub data element 48:12)	48
		Service Unit Phone	ns	15	space right-padding	Available if RC=0000	Custom (sub data element 48:13)	48
		Total Transaction Amount Minor Unit	n	1	zero left-padding	Total Transaction Amount Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:14)	48
		Total Transaction	n	17	Zero left-padding	Total Transaction Amount TA =	Custom (sub data element)	48

		Amount				RPTAG + AC Available if RC=0000 0000000000000000 0	48:15)	
		PLN-BILL Minor Unit	n	1		PLN-Bill Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:16)	48
		PLN-BILL Value (RPTAG)	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:17)	48
		Administra tion Charge Minor Unit	n	1	Zero left-padding	Administration Charge Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:19)	48

		Administration Charge (AC)	n	10	Zero left-padding	Administration Charge Available if RC=0000 0000000000	Custom (sub data element 48:20)	48
18	Length of Additional Private Data #2		n	3	zero left-padding	Length of additional private data #2 (sub field of data element 62) for MTI=2110 Sum of sub-fields length Available if RC=0000 021	YES	62
19	Additional Private Data #2							62
		Bill	n	2	zero	Bill Component	Custom	62

		Component Type			left-padding	Type Always set to 01	(sub data element 62:1)	
		Bill Component Minor Unit	n	1	zero left-padding	Bill Component Minor Unit Always set to 2	Custom (sub data element 62:2)	62
		Bill Component Value Amount	n	17	zero left-padding	Bill Component Value Amount 00000000000000000000	Custom (sub data element 62:3)	62
20	Length of Info Text		n	3		Length of Info Text		63
21	Info Text		ans	999		Custom Message from PLN e.g. 63 "Hemat Listrik & Ayo Bebas Narkoba"		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 Bitmap 5030004180810004 = use field 2, 4,11, 12, 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		99504 (Kode Produk Nontaglis)	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 of decimal value 0=no decimal value n=n-last digits of value amount are decimal values 0	YES	4
		Value Amount	n	12	Zero left padding	Transaction Amount (Total Transaction Amount from DE48 without decimal values)		

						000000000000		
6	Switcher Trace Audit Number		n	12	Zero left padding	Identical to same field in inquiry request message	YES	11
7	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Identical to same field in inquiry request message	YES	12
8	Merchant Category Code		n	4		Identical to same field in inquiry request message	YES	26
9	Length of Bank Code		n	2	Zero left-padding	Identical to same field in inquiry request message		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=2110 Sum of sub-fields length 039 if RC != 0000 221 if RC = 0000	YES	48
15	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Identical to same field in inquiry	Custom (sub data)	48

						request message	element 48:1)	
		Registra tion Number	n	13	Space right-padding	Identical to same field in inquiry request message	Custom (sub data element 48:2)	48
		Transact ion Code	n	3	zero left-padding	Transaction Code RESERVED Currently always set to 000	Custom (sub data element 48:3)	48
		Transact ion Name	ans	25	Space right padding	Transaction name	Custom (sub data element 48:4)	48
		Registratio n date	an	8	CCYYMMDD	Registration Date in CM@X Available if RC in {0000, 0048}	Custom (sub data element 48:5)	48
		Expiration Date	an	8	CCYYMMDD	Nama Pelanggan Available if	Custom (sub data	48

						RC=0000	element 48:6)	
		Subscriber ID	n	12	zero left-padding	Available if RC=0000	Custom (sub data element 48:7)	48
		Subscriber Name	an	25	Space right- padding	Available if RC=0000	Custom (sub data element 48:8)	48
		PLN Reff Number	an	32		Available if RC=0000	Custom (sub data element 48:9)	48
		Sw reff	an	32	Zero left-padding	Available if RC=0000	Custom (sub data element 48:10)	48
		Service Unit	an	5	Zero left-padding	Available if RC=0000	Custom (sub data element 48:11)	48

		Service Unit Address	an	35	space right-padding	Available if RC=0000	Custom (sub data element 48:12)	48
		Service Unit Phone	ns	15	space right-padding	Available if RC=0000	Custom (sub data element 48:13)	48
		Total Transaction Amount Minor Unit	n	1	zero left-padding	Total Transaction Amount Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:14)	48
		Total Transaction Amount	n	17	Zero left-padding	Total Transaction Amount TA = RPTAG + AC Available if RC=0000 000000000000000000 0	Custom (sub data element 48:15)	48

		PLN-BILL Minor Unit	n	1		PLN-Bill Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:16)	48
		PLN-BILL Value (RPTAG)	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:17)	48
		Administra tion Charge Minor Unit	n	1	Zero left-padding	Administration Charge Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:19)	48
		Administra tion Charge	n	10	Zero left-padding	Administration Charge Available if RC=0000	Custom (sub data element 48:20)	48

		(AC)				0000000000		
17	Length of Additional Private Data #2		n	3	zero left-padding	Length of additional private data #2 (sub field of data element 62) for MTI=2110 Sum of sub-fields length Available if RC=0000 021	YES	62
18	Additional Private Data #2							62
		Bill Component Type	n	2	zero left-padding	Bill Component Type Always set to 01	Custom (sub data element 62:1)	62
		Bill Component	n	1	zero left-padding	Bill Component Minor Unit	Custom (sub data	62

		t Minor				Always set to 2	element 62:2)	
		Unit						
		Bill Componen t Value	n	17	zero left-padding	Bill Component Value Amount	Custom (sub data element 62:3)	62
		Amount				00000000000000000 0		

6. Reversal Response Message

Message Type Identifier : 2410 / 2411

Sender : MitraSymphoni

Tujuan : Pembatalan pembayaran tagihan pelanggan

Field	Name	Sub Field	Type	Len	Format	Description	ISO8583:2003	
							Standard	Data Element
1	MTI		n	4		Message Type Indicator 2410 / 2411= Payment response	YES	
2	BitMap		h	16		Primary Bitmap		1

						5032004182810006 = use field 2, 4, 11, 12, 15, 26, 32, 33, 39, 41, 48, 62, 63 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		99504 (Kode Produk Nontaglis)	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 of decimal value 0=no decimal value n=n-last digits of value amount are decimal values	YES	4

		Value Amount	n	12	Zero left padding	Transaction Amount (Total Transaction Amount from DE48 without decimal values) 000000000000		
6	Switcher Trace Audit Number		n	12	Zero left padding	Identical to same field in inquiry request message	YES	11
7	Date & Time, Local Transaction		n	14	CCYYMMDDhh mmss	Identical to same field in inquiry request message	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		
9	Merchant Category Code		n	4		Identical to same field in inquiry request message	YES	26
10	Length of Bank Code		n	2	Zero left-padding	Identical to same field in inquiry request message		32
11	Bank Code		an	7	Zero left-padding	Bank Code (defined by Bank Indonesia)	YES	32
12	Length of partner central ID		n	2	Zero left-padding	Length of partner central ID 07		33

13	Partner Central ID		n	7	Zero left-padding	Customer ID Mitra Symphoni	YES	33
14	Response Code (RC)		n	4		0000 = successful 0005 = ERROR - Other 0011 = ERROR - Need to sign-on 0015 = ERROR - Unknown Registration Number 0016 = ERROR - PRR Subscriber 0017 = ERROR - Subscriber still have bills to pay 0030 = ERROR - Invalid message 0031 = ERROR - Unregistered Bank Code	YES	39

						<p>0032 = ERROR - Unregistered Switching</p> <p>0033 = ERROR - Unregistered Product</p> <p>0034 = ERROR - Unregistered Terminal</p> <p>0045 = ERROR - Invalid admin charges</p> <p>0048 = ERROR - Registration is expired</p> <p>0068 = ERROR - Timeout in Switching</p> <p>0088 = ERROR - Bills already paid</p> <p>0090 = ERROR - Cut-off is in progress</p>		
--	--	--	--	--	--	--	--	--

15	Terminal ID		ans	16	Zero left-padding	Kode loket / terminal mitra	YES	41
16	Length of Additional Private Data		n	3	Zero left-padding	Length of additional private data (sub field of data element 48) for MTI=2110 Sum of sub-fields length 039 if RC != 0000 221 if RC = 0000	YES	48
17	Additional Private Data							
		Switcher ID	an	7	Zero left-padding	Identical to same field in inquiry request message	Custom (sub data element 48:1)	48
		Registration Number	n	13	Space right-padding	Identical to same field in inquiry request message	Custom (sub data element 48:2)	48

		Transact ion Code	n	3	zero left-padding	Transaction Code RESERVED Currently always set to 000	Custom (sub data element 48:3)	48
		Transact ion Name	ans	25	Space right padding	Transaction name	Custom (sub data element 48:4)	48
		Registratio n date	an	8	CCYYMMDD	Registration Date in CM@X Available if RC in {0000, 0048}	Custom (sub data element 48:5)	48
		Expiration Date	an	8	CCYYMMDD	Nama Pelanggan Available if RC=0000	Custom (sub data element 48:6)	48
		Subscriber ID	n	12	zero left-padding	Available if RC=0000	Custom (sub data element	48

							48:7)	
		Subscriber Name	an	25	Space right-padding	Available if RC=0000	Custom (sub data element 48:8)	48
		PLN Ref Number	an	32		Available if RC=0000	Custom (sub data element 48:9)	48
		Sw reff	an	32	Zero left-padding	Available if RC=0000	Custom (sub data element 48:10)	48
		Service Unit	an	5	Zero left-padding	Available if RC=0000	Custom (sub data element 48:11)	48
		Service Unit Address	an	35	space right-padding	Available if RC=0000	Custom (sub data element 48:12)	48
		Service Unit Phone	ns	15	space right-	Available if RC=0000	Custom (sub data	48

					padding		element 48:13)	
		Total Transaction Amount Minor Unit	n	1	zero left-padding	Total Transaction Amount Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:14)	48
		Total Transaction Amount	n	17	Zero left-padding	Total Transaction Amount TA = RPTAG + AC Available if RC=0000 00000000000000000 0	Custom (sub data element 48:15)	48
		PLN-BILL Minor Unit	n	1		PLN-Bill Minor Unit Available if RC=0000	Custom (sub data element 48:16)	48

						Currently always set to 2		
		PLN-BILL Value (RPTAG)	n	10	Zero left-padding	To be used for Jasa Inkaso Calculation Available if RC=0000 & BS in [1..4]	Custom (sub data element 48:17)	48
		Administration Charge Minor Unit	n	1	Zero left-padding	Administration Charge Minor Unit Available if RC=0000 Currently always set to 2	Custom (sub data element 48:19)	48
		Administration Charge (AC)	n	10	Zero left-padding	Administration Charge Available if RC=0000 0000000000	Custom (sub data element 48:20)	48
18	Length of Additional		n	3	zero left-padding	Length of additional private data #2	YES	62

	Private Data #2					(sub field of data element 62) for MTI=2110 Sum of sub-fields length Available if RC=0000 021		
19	Additional Private Data #2							62
		Bill Component Type	n	2	zero left-padding	Bill Component Type Always set to 01	Custom (sub data element 62:1)	62
		Bill Component Minor Unit	n	1	zero left-padding	Bill Component Minor Unit Always set to 2	Custom (sub data element 62:2)	62
		Bill Component Value	n	17	zero left-padding	Bill Component Value Amount	Custom (sub data element	62

		Amount				000000000000000000 0	62:3)	
20	Length of Info Text		n	3		Length of Info Text		63
21	Info Text		ans	999		Custom Message from PLN e.g. 63 "Hemat Listrik & Ayo Bebas Narkoba"		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

REQUEST:

210040300041808100000599504000000000006200910140111366015074410000074410101SLS00000000
00001044ST145S35436000000016710

54001

RESPONSE:

2110503000418281000C05995043600000001216200000000000062009101401113660150744100000744
101010000 SLS0000000000001288ST145S35436000000016710

54001

0000000000000000543102200613 KARTO AMIRSYAH

BED747A83726447D9825FA9DDE59F964974267FBB8B743749E4E6CFF5787F4CC54360

20000000012162000020000000012146000020000160000009550760022042020020000000003046000010
200000000091000000

PAYMENT REQUEST:

22005030004180810004059950436000000012162000000000000072009101401124860150744100000744
10101 SLS00000000000001288ST145S35436000000016710

54001

0000000000000000543102200613KARTO AMIRSYAH

A72128F5F2C74204B5C60607123E3E6050EB2687D6E64891A858773E4ED198AF54360

20000000012162000020000000012146000020000160000042020020000000003046000010200000000091
000000

PAYMENT RESPONSE:

2210503200418281000605995043600000001216200000000000072009101401124820091014601507441
00000744101010000 SLS00000000000001288ST145S3543600000001

6710

54001

0000000000000000543102200613 KARTO AMIRSYAH

A72128F5F2C74204B5C60607123E3E6050EB2687D6E64891A858773E4ED198AF54360

20000000012162000020000000012146000020000160000042020020000000003046000010200000000091
000000033Hemat Listrik & Ayo Bebas Nark oba