

BAB V

KESIMPULAN

Berdasarkan data dan analisis yang di peroleh dapat di simpulkan sebagai berikut :

1. Pada Sentral B72GTJR nilai rata-rata ASR sebesar 74,24%, nilai tersebut masih dibawah target PT SMART TELECOM sebesar 80%, jadi nilai rata-rata ASR belum memenuhi apa yang sudah ditargetkan, dan untuk jumlah sirkit yang disediakan 538 dan yang terpakai 184.
2. Terjadinya kegagalan panggilan disebabkan oleh UNREAS sebesar 5,71% dari target <5%, RNATER sebesar 7,45% dari target <7%, BUSYTER sebesar 10,49% dari target <10%, LAIN-LAIN sebesar 6,15% dari 5%.
3. Untuk mengurangi kegagalan panggilan maka diperlukan perbaikan pada *Common* atau *Trunk Interfall* disentral yang terganggu, menggunakan *Voice Processing System (VPS)* atau *Coise Response System (VRS)*, serta melakukan perbaikan jaringan lokal jika terjadi *Short Circuit*.

SS#7 Trace

ne(s)

Side=B Len= 107 EV=0 01 Feb 2009 10:05:32099

```

-1:01001 E9Bsn 105
----- Bib: 1
-1010001DIFsn 81
----- Fib: 1
--111111 3FLI 63
----- MSU Message
---0011 C3 ...SIO: SCCP
----- Sub Service Field: Reserved nat use
000000* 03 ...DPC: B72GSTL
--001011 4B .....
----- OPC: B72GTJR
00000000 00 .....
---0011 33 .....
11----- SLS: 3
0001001 09 ...UVC: unitvone
----- Protocol class
---0001 01 ...Class: 1
10----- Options: no special opt.
00000110 3 ...Index to Called Party Address (Mandatory Parameter)
0001110 0E ...Index to Calling Party Address (Mandatory Parameter)
0011001 19 ...Index to Service Data (Mandatory Parameter)
----- Called party address:
0001011 0B .....Length: 11
0----- 12 .....Rout base: Global title
----- National bit: 0
-0----- SPC present: no
-1----- SSN present: yes
00-- ..... Glob Title present: yes
0000110 06 ...SSN: HLR (MAP)
----- Global title 4
000000 00 .....Translation type: 0
--001012 .....Encoding scheme: BCD even number of digits
----- Numb.plan: ISDN/tel.(Rec.E.163,164)
000100 04 .....Nat.addr.ind: internat.num
----- Spare
----- Addr.info(dgts): 628812268827
----- SEI: 9254
----- ANS: 6302
----- 12 .....Rout base: Global title
----- National bit: 0
-0----- SPC present: no
-1----- SSN present: yes
00-- ..... Glob Title present: yes
001000 08 ...SSN: MSC (MAP)
----- Global title 4
000000 00 .....Translation type: 0
001012 .....Encoding scheme: BCD even number of digits
----- Numb.plan: ISDN/tel.(Rec.E.163,164)
000100 04 .....Nat.addr.ind: internat.num
----- Spare
----- Addr.info(dgts): 628964011091
----- User data
000101 45 .....Length: 69
----- MAP message
00010 62 .....TAG: Begin message
----- 43 .....Bit Len Ext
011 .....Length: 67
----- ##### Transaction portion #####
0000 48 .....TAG: Orig.transid lag
    
```



```

0-----04 ..... Bit Len Ext.
000100 ..... Length: 4
0011 1000 38 ..... Trans ID val: 943268609
0011 1001 39 .....
00100011 23 .....
00000001 01 .....
##### Dialogue portion #####
111101116B ..... TAG: Dialogue Portion
1-----1A ..... Bit Len Ext.
11010 ..... Length: 25
1010100028 ..... TAG Extension of
1-----18 ..... Bit Len Ext.
11000 ..... Length: 24
1000110 06 ..... TAG: Object Identifier
1-----07 ..... Bit Len Ext.
10111 ..... Length: 7
1000000 00 ..... Institute: CCITT
1010001 11 ..... Spec Letter: Q
1 000110 86 ..... Spec Number: 773
0000101 06 .....
0000001 01 ..... Sub Spec Number: 1
000001 01 ..... dialoguePDU (1)
00000101 ..... Version Number: 1
0100000 A0 ..... TAG: ASN.1 type
-----00 ..... Bit Len Ext.
11101 ..... Unrcas: 452
11102 ..... Rnater: 577
11103 ..... Busyter: 855
11104 ..... Others: 542
0100001 A1 ..... TAG: Application context name
-----09 ..... Bit Len Ext.
1001 ..... Length: 9
000110 06 ..... TAG: Object Identifier
-----07 ..... Bit Len Ext.
0111 ..... Length: 7
000100 04 ..... Institute: ccitt identified-organization
000000 00 ..... etsi (0)
000000 00 ..... mobileDomain (0)
000001 01 ..... gsm-Network (1)
000000 00 ..... ac-Id (0)
010100 14 ..... shortMsgGatewayContext (20)
000010 02 ..... Application Context Version 2 (2)
101100 6C ..... ##### Component portion #####
-----1F ..... Bit Len Ext.
111 ..... Length: 31
100001 ..... Circuit: 538
-----1D ..... Bit Len Ext.
101 ..... Length: 29
000110 02 ..... TAG: Invoke ID tag
-----01 ..... Bit Len Ext.
001 ..... Length: 1
..... Invoke ID val: 001
00010 02 ..... Op code tag: Local oper. Code tag
00001 01 ..... Length: 1
01101 2D ..... Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg
01268821628872'H
of address indicator = international number
ring plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
28812268827
PRI TRUE,

```



S#7 Trace

(s)

```

de=B      len= 107 EV=0 02 Feb 2009 10:25:07.065
101001 E9Bsn : 105
--- Bib : 1
01000101Fsn : 81
--- Fib : 1
111111 3F 01 : 63
--- MSU Message
-0011C3 ...SIO :SCCP
--- Sub Service Field :Reserved nat use
0000011 03 ...OPC :B72GSTJ
001011 4B
--- OPC :B72GTJR
000000 00
--- 0011 33
--- ...SLS :3
000100109 .....UVC :unitvoice
--- ... Protocol class
-000101 ..... Class :1
--- ... Options :no special opt.
0000011 03 ..... Index to Called Party Address (Mandatory Parameter)
0001110 0E ..... Index to Calling Party Address (Mandatory Parameter)
001101 19 ..... Index to User Data (Mandatory Parameter)
--- ... Called party address
0001011 0B ..... Length :11
--- 12 ..... Rout base :Global title
--- ... National bit :0
0 ..... SPC present :no
1- ..... SSN present :yes
0- ..... Glob Title present :yes
0001100 6 ..... SSN :HLR (MAP)
--- Global title 4
000000 00 ..... Translation type :0
--- 0010 12 ..... Encoding scheme :BCD even number of digits
--- ... Numb.plan :ISDN/tel (Rec.E.163,164)
000100 04 ..... Nat.addr.ind :internat.num
--- Spare
--- ... Addr.info(dgts) :628812268827
--- SEIZ :8553
--- ... ANS :6824
--- 12 ..... Rout base :Global title
--- ... National bit :0
0 ..... SPC present :no
1- ..... SSN present :yes
0- ..... Glob Title present :yes
01000 08 ..... SSN :MSC (MAP)
--- Global title 4
000000 00 ..... Translation type :0
--- 001012 ..... Encoding scheme :BCD even number of digits
--- ... Numb.plan :ISDN/tel (Rec.E.163,164)
000100 04 ..... Nat.addr.ind :internat.num
--- Spare
--- ... Addr.info(dgts) :628964011091
--- User data
000101 45 ..... Length :69
--- MAP message
0000 1062 ..... TAG :Begin message
--- 43 ..... Bit Len Ext
011 ..... Length :67
--- ##### Transaction portion #####
001000 48 ..... TAG :Orig.trans.id:tag
    
```




```

20-----04 ..... Bit Len Ext.
0000100 ..... Length: 4
30011100038 .....Trans ID val: 943268609
40011100139 .....
50010001123 .....
6000000101 .....
##### Dialogue portion #####
011010116B .....TAG: Dialogue Portion
0-----1A ..... Bit Len Ext.
011010 ..... Length: 26
0010100028 .....TAG External
0-----18 ..... Bit Len Ext.
011000 ..... Length: 24
0000011006 .....TAG: Object Identifier
0-----07 ..... Bit Len Ext.
30011 ..... Length: 7
00100000 ..... Institute: CCITT
00100011 ..... Spec Letter: Q
1000011086 ..... Spec Number: 773
1000010105 .....
1000000101 ..... Sub Spec Number: 1
1000000101 ..... DialoguePDU(1)
1000000101 ..... Version Number: 1
010000A0 .....TAG ASN1 type
0-----0D ..... Bit Len Ext.
11101 ..... Unreas: 395
11102 ..... Rnater: 680
11103 ..... Busyster: 922
11104 ..... Otheres: 547
0100001A1 .....TAG: Application context name
-----09 ..... Bit Len Ext.
11001 ..... length: 9
300011006 .....TAG: Object Identifier
-----07 ..... Bit Len Ext.
0111 ..... Length: 7
100010004 ..... Institute: ccitt identified-organization
10000000 ..... etsi (0)
10000000 ..... mobileDomain (0)
10000001 ..... gsm-Network (1)
10000000 ..... ac-Id (0)
01010014 ..... shortMsgGatewayContext (20)
00001002 ..... Application Context Version 2 (2)
1011006C .....##### Component portion #####
-----1F ..... Bit Len Ext.
1111 ..... Length: 31
100001 ..... Circuit: 538
-----1D ..... Bit Len Ext.
101 ..... Length: 29
10001002 .....TAG: Invoke ID tag
-----01 ..... Bit Len Ext.
001 ..... Length: 1
----- Invoke ID val: 001
10001002 .....Op code tag: Local oper. Code tag
10000101 ..... Length: 1
011012D .....Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg :=

912688216288721H
of address indicator = international number
ring plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
:28812268827

```



REFERENCE

S#7 Trace

(s)

```

10:00:10.81 Len= 107 EV=0 0, Feb 2009 10:16:26.081
10:00:10.81 Bsn: 105
  Bb: 1
 0:00:00:00:00:00:81
  Fib: 1
 11:11:11:11:11:63
  -- MSU Message
-0011C3 ...SIO :SCCP
  -- ...Sub Service Field :Reserved nat use
00000:103 ...DPC: B72GSTL
001011 4B ...
  -- ...OPC: B72GTJR
000000 00 ...
-0011 33 ...
  -- ...SLS: 3
001001 09 ...UVC :unitvoic
  -- ...Protocol class
-0001 01 ...Class :1
  -- ...Options :no special opt.
000011 03 ...Index to Called Party Address (Mandatory Parameter)
001110 0E ...Index to Calling Party Address (Mandatory Parameter)
011001 19 ...Index to User Data (Mandatory Parameter)
  -- ...Called party address
001011 0B ...Length: 11
  -- 12 ...Rout base: Global title
  -- ...National bit: 0
  -- ...SPC present: no
  -- ...SSN present: yes
  -- ...Glob Title present: yes
000110 06 ...SSN: HLR (MAP)
  -- ...Global title 4
000000 00 ...Translation type: 0
001012 ...Encoding scheme: BCD even number of digits
  -- ...Numb.plan: ISDN/tel.(Rec.E.163,164)
00100 04 ...Nat.addr.ind: internat num
  -- ...Spare
  -- ...Addr.info(dgts): 628812268827
  -- SEIZ: 8562
  -- ANS: 6571
  -- 12 ...Rout base: Global title
  -- ...National bit: 0
  -- ...SPC present: no
  -- ...SSN present: yes
  -- ...Glob Title present: yes
00:00 03 ...SSN: MSC (MAP)
  -- ...Global title 4
000000 00 ...Translation type: 0
001012 ...Encoding scheme: BCD even number of digits
  -- ...Numb.plan: ISDN/tel.(Rec.E.163,164)
00100 04 ...Nat.addr.ind: internat num
  -- ...Spare
  -- ...Addr.info(dg's): 628964011091
  -- ...User data
00101 45 ...Length: 69
  -- ...MAP message
00010 62 ...TAG: Begin message
  -- 43 ...Bit Len Ext.
011 ...Length: 67
  -- ...##### Transaction portion #####
0100048 ...TAG: Orig.trans.id tag

```



0-----04 Bit Len Ext.
 000100 Length: 4
 001110 00 38 Trans ID val: 943268609
 001110 01 39
 001000 12 3
 00000001 01

Dialogue portion #####
 11101011 68 TAG: Dialogue Portion

1-----1A Bit Len Ext.
 11010 Length: 26
 0101000 28 TAG External
 1-----1B Bit Len Ext.
 11001 Length: 24

0000110 06 TAG: Object Identifier
 1-----07 Bit Len Ext.
 10111 Length: 7
 0101000 00 Institute: CCITT
 0010001 11 Spec Letter: Q

000010 86 Spec Number: 773
 0000101 05
 0000001 01 Sub Spec Number: 1
 0000001 01 dialoguePOU (1)
 0000001 01 Version Number: 1

100000 A0 TAG: ASN.1 type
 1-----0D Bit Len Ext.

11101 Unreas: 428
 11102 Rnaler: 629
 11103 Busyter: 864
 11104 Others: 598

100001 A1 TAG: Application context name
 1-----09 Bit Len Ext.
 1001 Length: 9

010010 06 TAG: Object Identifier
 1-----07 Bit Len Ext.
 1111 Length: 7
 000100 04 Institute: ccitt-identified-organization
 000000 00 ats (0)

000000 00 mobileDomain (0)
 000001 01 gsm-Network (1)
 000000 00 ac-Id (0)
 110100 14 shortMsgGatewayContext (20)
 100010 02 Application Context Version 2 (2)

101100 6C ##### Component portion #####
 1-----1F Bit Len Ext.
 111 Length: 31

100001 Circuit: 538
 1-----1D Bit Len Ext.
 101 Length: 29
 000010 02 TAG: Invoke ID tag
 1-----01 Bit Len Ext.
 101 Length: 1

..... Invoke ID val: 001
 00010 02 Op code tag: Local oper. Code tag
 0000101 Length: 1
 01101 2D Operation Code: RoutingInfoForSM
 RoutingInfoForSM-Arg: #

#2688216268/214
 of address indicator = international number
 ing plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
 28812268827

RI TRUE



S#7 Trace

(s)

de=B Len= 107 EV=0 04 Feb 2009 10:36:51.064

010001 E9Bsn 105

--- Bb 1

010001 D1 Fsn 81

--- Fib 1

1111113F LI 63

---MSU Message

--0011 C3...SIO SCCP

--- Sub Service Field Reserved nat use

0000011 03...DPC B72GSTL

001011 4B

---...OPC: B72GTJR

000000 00

--0011 33

1--- ...SLS 3

0001001 09 ...UMC univoice

--- Protocol class

--0011 01 ...Class 1

0--- ...Options no special opt.

0000011 03 ...Index to Called Party Address (Mandatory Parameter)

0001100E ...Index to Calling Party Address (Mandatory Parameter)

0011001 19 ...Index to User Data (Mandatory Parameter)

--- Called party address

0010110B ...Length: 11

--- 12 ...Routbase: Global title

--- National bit: 0

0- ...SPC present: no

1- ...SSN present: yes

00- ...GlobTitle present: yes

0000110 06 ...SSN_HLR (MAP)

--- Global title 4

000000 00 ...Translation type: 0

00*012 ...Encoding scheme: BCD even number of digits

--- Numbplan: ISDN/tel (Rec.E.163,164)

000100 04 ...Nat.addr.ind: internat.num

--- Spare

--- Addr.info(digits) 628812268827

--- SEIZ 8641

--- ANS 6577

--- 12 ...Routbase: Global title

--- National bit: 0

0- ...SPC present: no

1- ...SSN present: yes

00- ...Glob Title present: yes

001000 08 ...SSN_MSC (MAP)

--- Global title 4

000000 00 ...Translation type: 0

0010 12 ...Encodingscheme: BCD even number of digits

--- Numbplan: ISDN/tel (Rec.E.163,164)

00100 04 ...Nat.addr.ind: internat.num

--- Spare

--- Addr.info(digits) 628964011091

--- User data

00101 45 ...Length: 69

--- MAP message

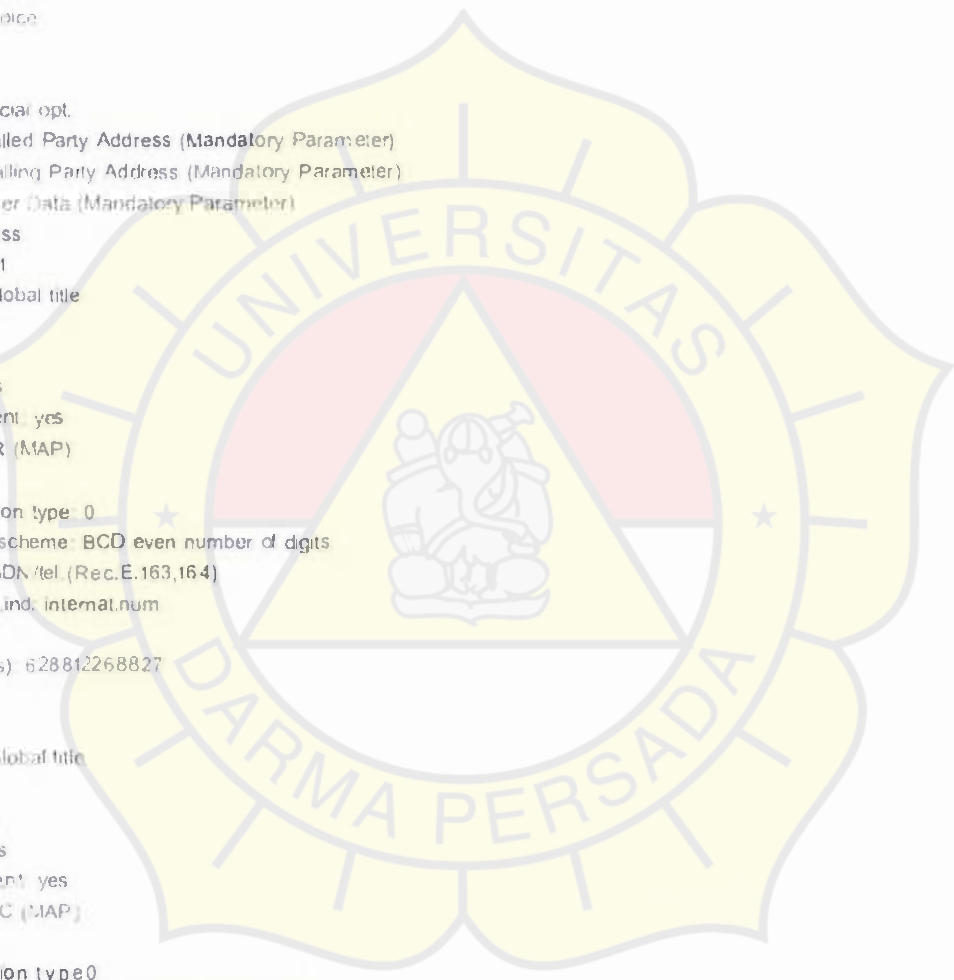
00010 62 ...TAG: Begin message

---43 ...Bit Len Ext.

011 ...Length: 67

--- ##### Transaction portion #####

01000 48 ...TAG: Origtrans.id tag



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0-----04 ..... Bit Len Ext.
000100 ..... Length: 4
00111000 38 ..... Trans ID val: 943268509
00111001 39 .....
00100011 23 .....
00000011 01 .....
-----##### Dialogue portion #####
01101011 5B ..... TAG: Dialogue Portion
0-----1A ..... Bit Len Ext.
111010 ..... Length: 21
00101000 28 ..... TAG: External
0-----18 ..... Bit Len Ext.
011000 ..... Length: 24
00000110 06 ..... TAG: Object Identifier
0-----07 ..... Bit Len Ext.
00111 ..... Length: 7
0000000 01 ..... Institute: CCITT
0010100111 ..... Spec Letter: Q
10000110 86 ..... Spec Number: 773
0000101 05 .....
0000001 01 ..... Sub Spec Number: 1
0000001 01 ..... dialoguePDU (1)
0000001 01 ..... Version Number: 1
0100000 A0 ..... TAG: ASN.1 type
0-----00 ..... Bit Len Ext.
01101 ..... Unreas: 521
01102 ..... Rnater: 591
01103 ..... Busyor: 790
01104 ..... Others: 512
010001 A1 ..... TAG: Application context name
-----09 ..... Bit Len Ext.
0001 ..... Length: 9
0000110 06 ..... TAG: Object Identifier
-----07 ..... Bit Len Ext.
011 ..... Length: 7
000100 04 ..... Institute: ccitt-identified-organization
000000 00 ..... etsi (0)
00000000 ..... mobileDomain (0)
000001 01 ..... gsm-Network (1)
000000 00 ..... ac-Id (0)
010100 14 ..... shortMsgGatewayContext (20)
000010 02 ..... Application Context Version 2 (2)
011100 6C ..... ##### Component portion i#####
-----1F ..... Bit Len Ext.
111 ..... Length: 31
100001 ..... Circuit: 538
-----1D ..... Bit Len Ext.
101 ..... Length: 29
000010 02 ..... TAG: Invoke ID tag
-----01 ..... Bit Len Ext.
001 ..... Length: 1
..... Invoke ID val: 001
000010 02 ..... Op code tag: Local oper. Code tag
000001 01 ..... Length: 1
01101 2D ..... Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg :=

```

```

9:268821628872'H
of address indicator = international number
ring plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
528812268827

```

?PRI TRUE,



S#7 Trace

(s)

```

de=8      Len= 107 EV=0 05 Feb 2009 10:21:32.022
10*001 E98sn: 105
-- Bib: 1
010001 D1Fsn: 81
-- Fib: 1
011111 3-11 63
----- MSU Message
-0011 C3 ...SIO_SCCP
-- ... Sub-Service-field: Reserved for use
0000011 03 ...DPC: B72GSTL
001011 4B ...
-- ... OPC: B72GTJR
000000 00 ...
-0011 33 ...
-- ... SLS: 3
0001001 09 ...UVC: unitvoice
-- ... Protocol class
-000101 ...Class: 1
-- ... Options: no special opt.
0000011 03 ...Index to Called Party Address (Mandatory Parameter)
000110 0 E J Index to Calling Party Address (Mandatory Parameter)
0011001 19 ...Index to User Data (Mandatory Parameter)
-- ... Called party address
0010110B ...Length: 11
-- 12 ...Rout base: Global title
-- ... National bit: 0
0 ...SPC present: no
-- ... SSN present: yes
0 ...Glob Title present: yes
000110 06 ...SSN: HLR (MAP)
-- ... Global title 4
000000 00 ...Translation type: 0
0010 12 ...Encoding scheme: BCD even number of digits
-- ... Numb.plan: ISDN/tel.(Rec.E.163,164)
0010004 ...Nat.addr.ind: internal.num
-- ... Spare
-- ... Addr.info(dgts): 628812268827
-- ... SEIZ: 8154
-- ... ANS: 6328
-- 12 ...Rout base: Global title
-- ... National bit: 0
0 ...SPC present: no
-- ... SSN present: yes
0 ...Glob Title present: yes
01000 08 ...SSN: MSC (MAP)
-- ... Global title 4
00000 00 ...Translation type: 0
0010 12 ...Encoding scheme: BCD even number of digits
-- ... Numb.plan: ISDN/tel.(Rec.E.163,164)
00100 04 ...Nat. addr.ind: internal.num
-- ... Spare
-- ... Addr.info(dgts): 628964011091
-- ... User data
00101 45 ...Length: 69
-- ... MAP message
00010 62 ...TAG: Begin message
-- 43 ...BitLen Ext.
011 ...Length: 67
-- ... Transaction portion #####
01000 48 ...TAG: Orig.trans.id tag

```



```

0-----04.....Bit Len Ext
000100.....Length: 4
00111000 38.....Trans ID val: 943268609
00111001 39.....
00100011 23.....
00000001 01.....
-----##### Dialogue portion #####
01101011 68.....TAG Dialogue Portion
1-----1A.....Bit Len Ext
11010.....Length: 26
10:01000 28.....TAG External
1-----18.....Bit Len Ext
11000.....Length: 24
10000110 06.....TAG Object Identifier
1-----07.....Bit Len Ext
10111.....Length: 7
00000000 00.....Institute: CCITT
0010001 11.....Spec Letter: Q
0000110 66.....Spec Number: 773
0000101 05.....
0000101 01.....Sub Spec Number: 1
0000001 01.....dialoguePDU (1)
0000001 01.....Version Number: 1
1100000 A0.....TAG ASN 1 type
-----0D.....Bit Len Ext
1101.....Unreas: 477
1102.....Rnater: 703
1103.....Busyter: 957
1104.....Otheres: 608
100001 A1.....TAG Application context name
-----09.....Bit Len Ext
1001.....Length: 9
000110 06.....TAG Object Identifier
-----07.....Bit Len Ext
1111.....Length: 7
000100 04.....Institute: ccitt identified-organization
000000 00.....etsi (0)
000000 00.....mobileDomain (0)
000001 01.....gsm-Network (1)
000000 00.....ac-Id (0)
110100 14.....shortMsgGatewayContext (20)
000010 02.....Application Context Version 2(2)
011005C.....##### Component portion #####
-----1F.....Bit Len Ext
111.....Length: 31
00001.....Circuit: 538
-----1D.....Bit Len Ext
101.....Length: 29
00010 02.....TAG: Invoke ID tag
-----01.....Bit Len Ext
101.....Length: 1
-----InvokeID val: 001
00010 02.....Op code tag: Local oper. Code tag
00001 01.....Length: 1
11101 2D.....Operation Code: RoutingInfoForSM
ingInfoForSM-Arg =

31268821628872'H
3f address indicator = international number
ing plan indicator = ISDN/T elephony Numbering Plan (Rec CCITT E.164)
28812268827

R1TRUE

```



S#7 Trace

s)

de=B Len= 102 EV=0 06 Feb 2009 10:34:01.085

110 001E0 Bsn: 105

--- Bb: 1

1010001 DIFsn: 81

--- Fb: 1

111111 JFL: 63

---- MSU Message

-0011C3 ...SO: SCCP

--- ...Sub Service Field: Reserved nat use

0000011 03 ...DPC: B72GSTL

001011 4B ...

--- ...OPC: B72GTJR

000000 00 ...

-0011 33 ...

--- ...SLS: 3

001001 09 ...UVC: unitvoice

--- ...Protocol class

-000101 ...Class: 1

--- ...Options: no special opt.

000011 03 ...Index to Called Party Address (Mandatory Parameter)

001110 0E ...Index to Calling Party Address (Mandatory Parameter)

011001 19 ...Index to User Data (Mandatory Parameter)

--- ...Called party address

001011 0B ...Length: 11

--- ...12 ...Rout.base: Global title

--- ...National bit: 0

0 ...SPC present: no

1- ...SSN present: yes

0- ...Glob. Title present: yes

000110 06 ...SSN: HLR (MAP)

--- ...Global title: 4

000000 00 ...Translation type: 0

0010 12 ...Encoding scheme: BCD even number of digits

--- ...Numb.plan: ISDN/tel (Rec.E.163,164)

00100 04 ...Nat.addr.ind: internal.num

--- ...Spare

--- ...Addr.info(dgts): 628812268827

--- ...SEIZ: 8514

--- ...ANS: 6020

--- ...12 ...Rout.base: Global title

--- ...National bit: 0

0 ...SPC present: no

1- ...SSN present: yes

0- ...Glob. Title present: yes

01100 08 ...SSN: MSC (MAP)

--- ...Global title: 4

00000 00 ...Translation type: 0

0010 12 ...Encoding scheme: BCD even number of digits

--- ...Numb.plan: ISDN/tel (Rec.E.163,164)

00100 04 ...Nat.addr.ind: internal.num

--- ...Spare

--- ...Addr.info(dgts): 628164011091

--- ...User data

00101 45 ...Length: 69

--- ...MAP message

000100 02 ...TAG: Begin message

--- ...43 ...BitLen Ext.

111 ...Length: 67

--- ...### ### Transaction portion #####

0000 48 ...TAG: Orig,transid tag



```

0----- 04 ..... Bit Len Ext.
000100 ..... Length: 4
00110000 38 ..... Trans ID val: 943268609
01011001 39 .....
00100011 23 .....
00000001 01 .....
----- ##### Dialogue portion #####
11010111 6B ..... TAG: Dialogue Portion
----- 1A ..... Bit Len Ext.
110110 ..... Length: 26
10101000 28 ..... TAG: External
----- 18 ..... Bit Len Ext.
110101 ..... Length: 14
00001101 05 ..... TAG: Object Identifier
----- 07 ..... Bit Len Ext.
001110 ..... Length: 7
00000000 00 ..... Institute: CCITT
00100001 11 ..... Spec Letter: Q
00001101 86 ..... Spec Number: 773
00001011 05 .....
00000001 01 ..... Sub Spec Number: 1
00000001 01 ..... dialoguePDU (1)
00000001 01 ..... Version Number: 1
01000000 A0 ..... TAG: ASN.1 type
----- 0D ..... Bit Len Ext.
1101 ..... Unreas: 526
1102 ..... Rnaler: 642
1103 ..... Busyter: 854
1104 ..... Otheres: 458
01000001 A1 ..... TAG: Application context name
----- 09 ..... Bit Len Ext.
0011 ..... Length: 9
00011001 06 ..... TAG: Object Identifier
----- 07 ..... Bit Len Ext.
0111 ..... Length: 7
00010001 04 ..... Institute: ccitt-identified-organization
00000000 00 ..... etsi (0)
00000000 00 ..... mobileDomain (0)
00000001 01 ..... gsm-Network (1)
00000000 00 ..... ac-id (0)
01010001 14 ..... shortMsgGatewayContext (20)
00001001 02 ..... Application Context Version 2 (2)
10110001 6C ..... ##### Component portion #####
----- 1F ..... Bit Len Ext.
1111 ..... Length: 31
000001 ..... Circuit: 538
----- 1D ..... Bit Len Ext.
1011 ..... Length: 29
00001001 02 ..... TAG: Invoke ID tag
----- 01 ..... Bit Len Ext.
0101 ..... Length: 1
----- ..... Invoke ID val: 001
00001001 02 ..... Op code tag: Local oper. Code tag
00000101 ..... Length: 1
01101101 2D ..... Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg =

```

P: 268821628872'H
of address indicator = international number
ing plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
268821628872

RI TRUE,



S#7 Trace

:(s)

```

de=B      Len= 107 EV=0 07 Feb 2009 10:59:36.067
110:001 E9 Bsn 105
--- Bb: 1
01000: D1Fsn 81
--- Fib: 1
11111 JFL 63
--- MSU Message
-0.011C.3 ...SIO: SCCP
--- ...Sub Service Field: Reserved nat use
00000:11 03 .....DPC: B72GSTL
001011 4B .....
--- OPC: B72GTJR
000000 00 .....
-0.111 33 .....
--- ...SLS: 3
000100:09 ...LVC: undivided
--- ...Protocol class
-0.00101 .....Class 1
--- ...Options: no special opt.
000111:03 .....Index to Called Party Address (Mandatory Parameter)
0001110 0E .....Index to Calling Party Address (Mandatory Parameter)
001100:19 .....Index to User Data (Mandatory Parameter)
--- ...Called party address
001011 0B .....Length: 11
--- 12 .....Rout.base: Global title
--- ...National bit: 0
0 .....SPC present: no
0 .....SSN present: yes
0 .....Glob.Title present: yes
000110 06 .....SSN: HLR (MAP)
--- ...Global title 4
000000 00 .....Translation type: 0
0010 12 .....Encoding scheme: BCD even number of digits
--- ...Numb.plan: ISDN/tel.(Rec.E.163,164)
00100 04 .....Nat.addr.ind: internat.num
--- ...Spare
--- ...Addr.info(dgts): 628812268827
--- SEZ: 8530
--- ANS: 5976
--- 12 .....Rout.base: Global title
--- ...National bit: 0
0 .....SPC present: no
0 .....SSN present: yes
0 .....Glob.Title present: yes
01000 08 .....SSN: MSC (MAP)
--- ...Global title 4
000000 00 .....Translation type: 0
001012 .....Encoding scheme: BCD even number of digits
--- ...Numb.plan: ISDN/tel.(Rec.E.163,164)
00100 04 .....Nat.addr.ind: internat.num
--- ...Spare
--- ...Addr.info(dgts): 628964011091
--- ...User data
0010145 .....Length: 69
--- ...MAP message
0001062 .....TAG: Begin message
--- 43 .....Bit Len Ext.
11 .....Length: 67
--- ...##### Transaction portion #####
01000 48 .....TAG: Orig.trans/d lag

```




```

0-----04 .....Bit Len Ext.
000100 .....Length: 4
00111000 38 .....Trans ID val: 943268609
01111001 39 .....
0010001123 .....
00000001 01 .....
##### Dialogue portion #####
01111001 6B .....TAG: Dialogue Portion
0-----1A .....Bit Len Ext.
0111010 .....length: 26
00101000 28 .....TAG: External
0-----18 .....Bit Len Ext.
111000 .....Length: 24
00000110 05 .....TAG: Object Identifier
0-----07 .....Bit Len Ext.
00111 .....Length: 7
00000000 00 .....Institute: CCITT
0010001 11 .....Spec Letter: Q
0000110 86 .....Spec Number: 773
0000101 05 .....
0000001 01 .....Sub Spec Number: 1
0000001 01 .....dialoguePDU(1)
0000001 01 .....Version Number: 1
0100000 A0 .....TAG: ASN.1 type
-----00 .....Bit Len Ext.
11101 .....Unreas: 389
11012 .....Rnater: 620
11103 .....Busyter: 796
11014 .....Otheres: 498
100001 A1 .....TAG: Application context name
-----09 .....Bit Len Ext.
1001 .....Length: 9
000110 06 .....TAG: Object Identifier
-----07 .....Bit Len Ext.
0111 .....Length: 7
000100 04 .....Institute: ccitt-identified-organization
000000 00 .....etsi (0)
000000 00 .....mobileDomain (0)
000001 01 .....gsm-Network (1)
000000 00 .....ac-Id (0)
010100 14 .....shortMsgGatewayContext (20)
000010 02 .....Application Context Version 2 (2)
011100 6C .....##### Component portion #####
-----1F .....Bit Len Ext.
111 .....Length: 31
100001 .....Circuit: 538
-----1D .....Bit Len Ext.
101 .....Length: 29
100010 02 .....TAG: Invoke ID tag
-----01 .....Bit Len Ext.
001 .....Length: 1
----- .....Invoke ID val: 001
00010 02 .....Op code tag: Local oper. Code tag
00001 01 .....Length: 1
01101 2D .....Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg ::=

```



```

31268821628872'H
3 address indicator = international number
3 ng plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
28812268827

```

RI TRUE,

S#7 Trace

pe(s)

id=B Len= 107 EV=0 08 Feb 2009 10:06:11.034

1101001 E9 Bsn: 105

-- Bb: 1

010001 01 E9: 81

-- E9: 1

111111 3F LI: 53

-- MSUMessage

--0011 03 ...SIC SCCP

-- ...Sub-Service Field (Reserved nat use)

000001103DPC: B72GSTL

0010114B

.....DPC: B72GSTR

000000 00

--0011 33

1----SLS: 3

1001001 09UVC: unitvoice

-- ...Protocol class

--0001 01Class: 1

-----Options: no special opt.

000011 03Index to Called Party Address (Mandatory Parameter)

001110 0EIndex to Calling Party Address (Mandatory Parameter)

011001 19Index to User Data (Mandatory Parameter)

-----Called party address

0010110BLength: 11

----- 12Routbase: Global title

-----National bit: 0

0SPC present: no

0SSN present: yes

0Glob Title present: yes

00110 06SSN: HLR (MAP)

-----Global title: 4

000000 00Translation type: 0

001012Encoding scheme: BCD even number of digits

-----Numb plan: ISDN/tel.(Rec.E.163,164)

00100 04Nat addr ind: internal num

-----Spare

-----Addr info(dgts): 628812268827

-----SEIZ: 8807

-----ANS: 5958

----- 12Routbase: Global title

-----National bit: 0

0SPC present: no

0SSN present: yes

0Glob Title present: yes

01000 08SSN: MSC (MAP)

-----Global title: 4

000000 00Translation type: 0

01012Encoding scheme: BCD even number of digits

-----Numb plan: ISDN/tel.(Rec.E.163,164)

00100 04Nat addr ind: internal num

-----Spare

-----Addr info(dgts): 628964011091

-----User data

00101 45Length: 69

-----MAP message

00010 62TAG: Begin message

----- 43Bit Len Ext.

11Length: 67

-----##### Transaction portion #####

0000 48TAG: Orig.transid tag



```

0-----04.....Bit Len Ext.
000100.....Length: 4
0011100038.....Trans ID val: 943268609
00111001 39.....
00100011 23.....
00000001 01.....
-----##### Dialogue portion #####
01101011 6B.....TAG: Dialogue Portion
0-----1A.....Bit Len Ext.
011010.....Length: 26
00101000 28.....TAG: External
1-----18.....Bit Len Ext.
110000.....Length: 24
00001 10 06.....TAG: Object Identifier
-----07.....Bit Len Ext.
00111.....Length: 7
0011000 00.....Institute: CCITT
0010001 11.....Spec letter: Q
0000110 86.....Spec Number: 773
000 010: 05.....
000000: 01.....Sub Spec Number: 1
000000: 01.....DialoguePDU (1)
000000: 01.....Version Number: 1
0100000 A0.....TAG: ASN.1 type
-----0D.....Bit Len Ext.
1101.....Unreas: 426
1102.....Rnater: 600
1103.....Busyter: 851
1104.....Otheres: 500
100001 A1.....TAG: Application context name
-----09.....Bit Len Ext.
1001.....Length: 9
000110 06.....TAG: Object Identifier
-----07.....Bit Len Ext.
1111.....Length: 7
000100 04.....Institute: ccitt identified-organization
000000 00.....etsi (0)
000000 00.....mobileDomain (0)
000001 01.....gsm-Network(1)
000000 00.....ac-Id (0)
10100 14.....shortMsgGatewayContext (20)
00010 02.....Application Context Version 2 (2)
0110000C.....##### C omponent portion #####
-----1F.....Bit Len Ext.
111.....Length: 31
00001.....Credit: 539
-----1D.....Bit Len Ext.
101.....Length: 29
00010 02.....TAG: Invoke ID tag
-----01.....Bit Len Ext.
101.....Length: 1
-----Invoke ID val: 001
00010 02.....Op code tag: Local oper. Code tag
00001 01.....Length: 1
1101 2D.....Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg ::=
1268621628872'H
of address indicator = international number
ng plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
28812268827
PRI TRUE
    
```



S#7 Trace

e(s)

```

de=B      Len= 107  EV=0  09Feb 2009 10:09:29.068
0101001 E9Bsn : 105
--- Bb : 1
010001 0115x : 41
--- Fb : 1
111111 3FL1 : 63
---- MSU Message
--0011 03 .....SIO :SCCP
--- ..Sub Service Field :Reserved nat use
000001103 .....DPC: B72GSTL
0101011 4B .....
--- ..OPC: B72GTJR
000000 00 .....
--0011 33 .....
--- ..SLS: 3
001001 09 .....UVC :unitvoice
-- ..Protocol class
--0011 01 .....Class: 1
--- ..Options: no special opt.
00001103 .....Index to Called Party Address (Mandatory Parameter)
0011110 0E .....Index to Calling Party Address (Mandatory Parameter)
011001 19 .....Index to User Data (Mandatory Parameter)
-- ..Called party address
001011 0B .....Length: 11
--- ..12 .....Rout.base: Global title
-- ..National bit: 0
-- ..SPC present: no
-- ..SSN present: yes
-- ..Glob. Title present: yes
000110 06 .....SSN: HLR (MAP)
-- ..Global title 4
000000 00 .....Translation type: 0
001012 .....Encoding scheme: BCD even number of digits
-- ..Numb.plan: ISDN/tel.(Rec.E.163,164)
00100 04 .....Nat.addr.ind: internat.num
-- ..Spare
-- ..Addr.info(dgts): 628812268827
-- ..SEIZ: 4765
-- ..ANS: 3610
--- ..12 .....Rout.base: Global title
-- ..National bit: 0
-- ..SPC present: no
-- ..SSN present: yes
-- ..Glob. Title present: yes
01000 08 .....SSN: MSC (MAP)
-- ..Global title 4
00000 00 .....Translation type: 0
010 12 .....Encoding scheme: BCD even number of digits
-- ..Numb.plan: ISDN/tel.(Rec.E.163,164)
0100 04 .....Nat.addr.ind: internat.num
-- ..Spare
-- ..Addr.info(dgts): 628964011091
-- ..User data
00101 45 .....Length: 69
-- ..MAP message
00010 62 .....TAG: Begin message
-- ..43 .....Bit Len Ext.
11 .....Length: 67
-- ..##### Transaction portion #####
01000 48 .....TAG: Orig.trans.id tag
    
```



```

0----- 04 ..... Bit Len Ext.
000100 ..... Length: 4
00111000 38 ..... Trans ID val: 943268609
00111001 39 .....
0010 001123 .....
00000001 01 .....
----- ##### Dialogue portion #####
01 01011 6E ..... TAG Dialogue Portion
0----- 1A ..... Bit Len Ext.
111010 ..... Length: 26
00101000 28 ..... TAG External
0----- 18 ..... Bit Len Ext.
111000 ..... Length: 24
00000110 06 ..... TAG: Object Identifier
----- 07 ..... Bit Len Ext.
00111 ..... Length: 7
00000000 00 ..... Institute: CCITT
0010001 11 ..... Spec Letter: Q
0000110 86 ..... Spec Number: 773
0000101 05 .....
000000101 ..... Sub Spec Number: 1
0000001 01 ..... dialoguePDU (1)
0000001 01 ..... Version Number: 1
0100000 A0 ..... TAG ASN.1 type
----- 0D ..... Bit Len Ext.
11101 ..... Unreas: 298
11102 ..... Rnater: 399
11103 ..... Busyter: 522
11104 ..... Otheres: 322
1110001 A1 ..... TAG Application context name
----- 09 ..... Bit Len Ext.
1001 ..... Length: 9
0000110 05 ..... TAG Object Identifier
----- 07 ..... Bit Len Ext.
0111 ..... Length: 7
000100 04 ..... Institute: ccitt identified-organization
000000 00 ..... etsi (0)
000000 00 ..... mobileDomain (0)
000001 01 ..... gsm-Network(1)
000000 00 ..... ac-Id (0)
010100 14 ..... shortMsgGatewayContext (20)
000010 02 ..... Application Context Version 2 (2)
101100 6C ..... ##### Component portion #####
----- 1F ..... Bit Len Ext.
111 ..... Length: 31
000001 ..... Circuit: 538
----- 1D ..... Bit Len Ext.
101 ..... Length: 29
100010 02 ..... TAG Invoke ID tag
----- 01 ..... Bit Len Ext.
001 ..... Length: 1
----- Invoke ID val: 001
0001002 ..... Op code tag: Local oper. Code tag
00001 01 ..... Length: 1
01101 2D ..... Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg :=
01268821628872H
01 address indicator = international number
01 msg plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
0128812268827
PRI TRUE.

```



S#7 Trace

e(s)

de=B Len= 107 EV=0 10Feb 2009 10:29:22.061

1101001 E9 Bsn: 105

--- B1b: 1

0100001D1Fsn: 81

--- F6: 1

111111 3F DF: 63

--- MSU Message

--0011C3 ...SIO:SCCP

--- Sub Service Field: Reserved nat use

0000011 03DPC: B72GSTL

001015 4R

.....OPC: B72STJR

0010000 00

--0011 33

--- ...SLS: 3

001001 09UVC: unvoiced

--- ...Protocol class

--0001 01Class: 1

--- ...Options: no special opt.

00001103Index to Called Party Address (Mandatory Parameter)

0011100EIndex to Calling Party Address (Mandatory Parameter)

011001 19Index to User Data (Mandatory Parameter)

--- ...Called party address

0010110BLength: 11

--- 12Rout. base: Global title

--- ...National bit: 0

0SPC present: no

0SSN present: yes

0Glob. Title present: yes

000110 06SSN: HLR (MAP)

--- ...Global title 4

000000 00 Translation type: 0

0101012Encoding scheme: BCD even number of digits

--- ...Numb. plan: ISDN/tel. (Rec. E.163,164)

010100 04 Nat. addr. ind.: internal num.

.....Spare

--- ...Addr. info (dgts): 628812268827

--- ...SEIZ: 4580

--- ...ANS: 3523

--- 12Rout. base: Global title

--- ...National bit: 0

0SPC present: no

0SSN present: yes

0Glob. Title present: yes

01000 08SSN: MSC (MAP)

--- ...Global title 4

0000000 Translation type: 0

0101012Encoding scheme: BCD even number of digits

--- ...Numb. plan: ISDN/tel. (Rec. E.163,164)

0100 04 Nat. addr. ind.: internal num.

.....Spare

--- ...Addr. info (dgts): 628964011091

--- ...User data

0101 45Length: 69

--- ...MAP message

0010 62TAG: Begin message

--- 43B1 len: Ext.

01Length: 67

--- ##### Transaction portion #####

000048TAG: Orig. trans. id tag



```

0-----04.....Bit Len Ext.
000100.....Length: 4
00111000 38.....Trans ID val: 943268609
00111001 39.....
0010001123.....
0000000101.....
##### Dialogue portion #####
01101011 6B.....TAG: Dialogue Portion
0-----1A.....Bit Len Ext.
01010.....Length: 26
00101000 28.....TAG: External
0-----18.....Bit Len Ext.
01000.....Length: 24
0000110 06.....TAG: Object Identifier
0-----07.....Bit Len Ext.
00111.....length: 7
0000000 00.....Institute: CCITT
001000111.....Spec Letter: Q
0000110 96.....Spec Number: 773
000010105.....
0000001 01.....Sub Spec Number: 1
0000001 01.....DialoguePDU (1)
000000101.....Version Number: 1
0100000 00.....TAG: ASN.1 type
0-----0D.....Bit Len Ext.
1101.....Unreas: 257
1102.....Rnater: 368
1103.....Busyter: 508
1104.....Otheres: 295
100101 A1.....TAG: Application context name
0-----09.....Bit Len Ext.
1001.....Length: 9
0001 10 06.....TAG: Object Identifier
0-----07.....Bit Len Ext.
0111.....Length: 7
000100 04.....Institute: coIt Identified-organization
000000 00.....etsI (0)
000000 00.....mobileDomain (0)
000001 01.....gsm-Network (1)
000000 00.....ac-Id (0)
010100 14.....shortMsgGatewayContext (20)
000010 02.....Application Context Version 2 (2)
01100 6C.....##### Component portion #####
0-----1F.....Bit Len Ext.
111.....Length: 31
00001.....Circuit: 538
0-----1C.....Bit Len Ext.
101.....Length: 29
00010 02.....TAG: Invoke ID tag
0-----01.....Bit Len Ext.
001.....Length: 1
.....Invoke ID val: 001
00010 02.....Op code tag: Local oper. Code tag
00001 01.....Length: 1
01101 2D.....Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg ::=
01268821628872'H
of address indicator = international number
ng plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
28812268827
RI TRUE,

```



S#7 Trace

e(s)

Code=B Len= 107 EV=0 11 Feb 2009 10:16:05.077

0101001 E9 Bsn 105

0101001 B16 1

0101001 D1 Flsn 81

0101001 Flg 1

0111111 Fl LI 63

---MSU Message

---nat CA SIC SCOP

--- Sub Service Field Reserved nat use

00001103DPC: B72GSTL

00101148

.....OPC: B72GTJR

0000000 00

00011 33

.....SLS: 3

001001 09UVC unitvoice

--- Protocol class

000101Class: 1

--- Options: no special opt.

000011 03Index to Called Party Address (Mandatory Parameter)

001110 0EIndex to Calling Party Address (Mandatory Parameter)

011001 19Index to User Data (Mandatory Parameter)

--- Called party address

0010110BLength: 11

---12Rout.base: Global title

.....National bit: 0

.....SPC present: no

.....SSN present: yes

.....Glob Title present: yes

000110 06SSN: HLR (MAP)

--- Global title 4

0000000Translation type: 0

001012Encoding scheme: BCD even number of digits

.....Numb.plan: ISDN/tel.(Rec.E.163,164)

00100 04Nat.addr.inc: internat.num

.....Spare

--- Addr.info(dgts): 628812268827

--- SEIZ: 4570

--- ANS: 3533

--- 12Rout.base: Global title

.....National bit: 0

.....SPC present: no

.....SSN present: yes

.....Glob.Title present: yes

01000 08SSN: MSC (MAP)

--- Global title 4

00000 00Translation type: 0

01012Encoding scheme: BCD even number of digits

.....Numb.plan: ISDN/tel.(Rec.E.163,164)

0100 04Nat.addr.inc: internat.num

.....Spare

--- Addr.info(dgts): 628964011091

--- User data

0101 45Length: 69

--- MAP message

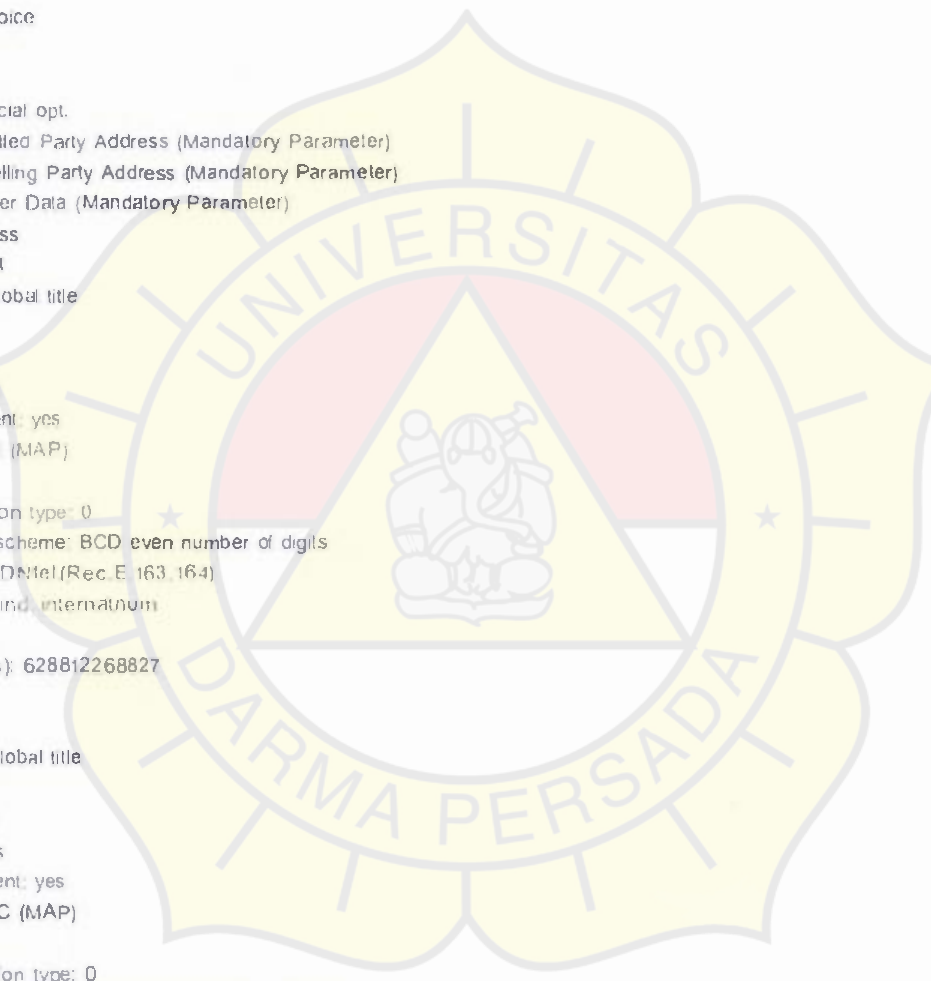
0010 62TAG: Begin message

--- 43Bit Len Ext.

---Length: 67

--- ##### Transaction portion #####

1000 48TAG: Origtrans.id tag



```

0----- 04 ..... Bit Len Ext.
000100 ..... Length: 4
0011100038 ..... Trans ID val: 943268609
0011100139 .....
0010001123 .....
0000000101 .....
----- ## ##### Dialogue portion #####
011010116B ..... TAG: Dialogue Portion
-----1A ..... Bit Len Ext.
11010 ..... length: 26
010100028 ..... TAG: External
----- 18 ..... Bit Len Ext.
11000 ..... Length: 24
000011006 ..... TAG: Object Identifier
----- 07 ..... Bit Len Ext.
00111 ..... Length: 7
00000000 ..... Institute: CCITT
001000111 ..... Sp: Letter: Q
000011086 ..... Spec Number: 773
000010105 .....
000000101 ..... Sub Spec Number: 1
000000101 ..... dialoguePDU (1)
000000101 ..... Version Number: 1
0100000A0 ..... TAG: ASN.1 type
----- 00 ..... Bit Len Ext.
1101 ..... Unreas: 271
1102 ..... Rnater: 421
1103 ..... Busyler: 490
1104 ..... Otheres: 490
100001A1 ..... TAG: Application context name
----- 09 ..... Bit Len Ext.
1001 ..... Length: 9
00011005 ..... TAG: Object Identifier
-----07 ..... Bit Len Ext.
0111 ..... Length: 7
00010004 ..... Institute: ccitt identified-organization
00000001 ..... etsi (0)
00000000 ..... mobileDomain (0)
000000101 ..... gsm-Network (1)
00000000 ..... ac-Id (0)
11010014 ..... shortMsgGatewayContext (20)
00010002 ..... Application Context Version 2 (2)
011005C ..... ##### Component portion #####
----- 1F ..... Bit Len Ext.
111 ..... Length: 31
00001 ..... Circuit: 538
----- 1D ..... Bit Len Ext.
101 ..... Length: 29
0001002 ..... TAG: Invoke ID tag
-----01 ..... Bit Len Ext.
001 ..... Length: 1
----- Invoke ID val: 001
0001002 ..... Op code tag: Local oper. Code tag
0100101 ..... Length: 1
011012D ..... Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg ::=
#1268821628872'H
of address indicator = international number
ing plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E 164)
28812268827
PRI TRUE,

```



S#7 Trace

(s)

de=B Len= 107 EV=0 12 Feb 2009 10:24:48.027

0101001 E9Bsn: 105

--- Sfb: 1

010001D1Fsn: 81

--- Fb: 1

1111113F LI: 63

----- MSU Message

-0011 C3 ...SIO: SCCP

--- Sub Service Field: Reserved nat use

000011 03OPC: B72GSTL

001011 4B

--- OPC: B72GTJR

000000 00

-0011 33

--- SLS: 3

001001 09.....UVC: unitvoice

--- Protocol class

0001 01Class: 1

--- Options: no special opt.

000011 03Index to Called Party Address (Mandatory Parameter)

001110 0EIndex to Calling Party Address (Mandatory Parameter)

010001 19Index to User Data (Mandatory Parameter)

--- Called party address

001011 0BLength: 11

--- 12Rout_base: Global title

--- National bit: 0

--- SPC present: no

--- SSN present: yes

--- Glob.Title present: yes

001110 06SSN: HLR (MAP)

--- Global title 4

000000 00Translation type: 0

001012Encoding scheme: BCD even number of digits

--- Numb.plan: ISDN/tel.(Rec.E.163,164)

001000 04Nat.addr.ind: internat.num

--- Spare

--- Addr.info(dgts): 628812268827

--- SEIZ: 4721

--- ANS: 3599

--- 12Rout_base: Global title

--- National bit: 0

--- SPC present: no

--- SSN present: yes

--- Glob.Title present: yes

010000 08SSN: MSC (MAP)

--- Global title 4

000000 00Translation type: 0

010112Encoding scheme: BCD even number of digits

--- Numb.plan: ISDN/tel.(Rec.E.163,164)

010000 04Nat.addr.ind: internat.num

--- Spare

--- Addr.info(dgts): 628964011091

--- User data

010145Length: 69

--- MAP message

001062TAG: Begin message

---43Bit Len Ext.

---1Length: 67

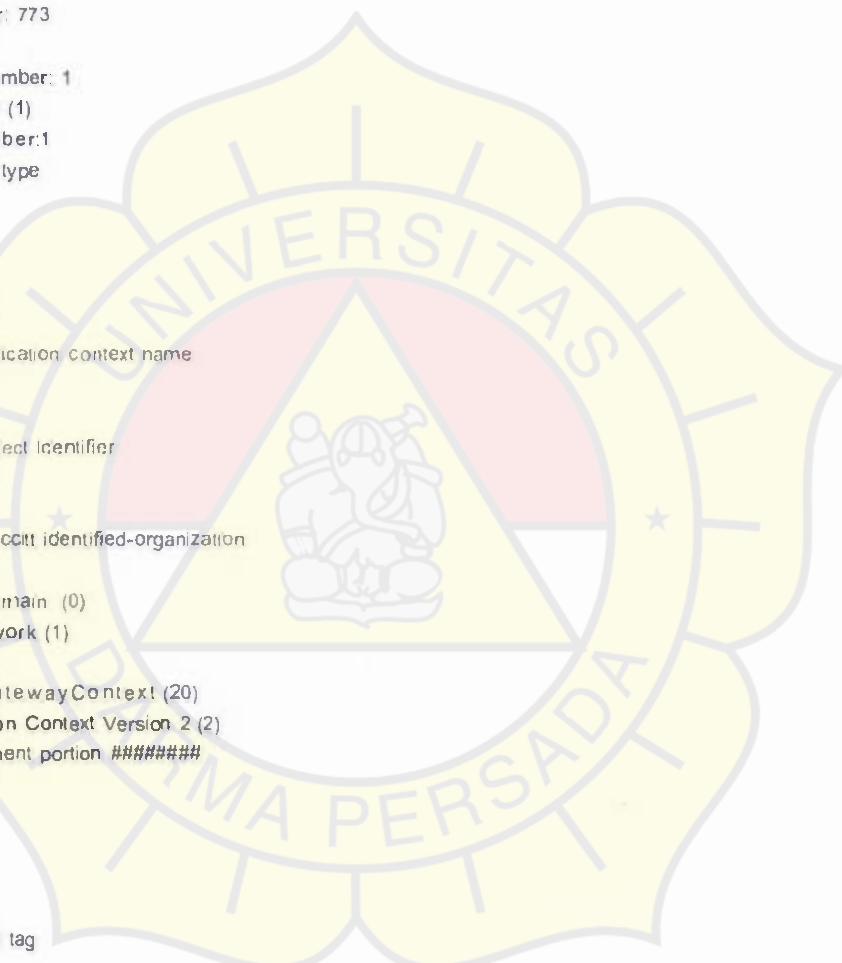
--- ##### # Transaction portion #####

010000 48TAG: Orig.trans.id tag


```

0-----04 .....Bit Len Ext.
000100 .....Length: 4
0011100038 .....Trans ID val: 943268609
00111001 39 .....
00100011 23 .....
00000001 01 .....
##### Dialogue portion #####
01101011 6B .....TAG: Dialogue Portion
0-----1A .....Bit Len Ext.
+11010 .....Length: 26
00101000 28 .....TAG: External
0-----18 .....Bit Len Ext.
11000 .....Length: 24
000011006 .....TAG: Object Identifier
-----07 .....Bit Len Ext.
00111 .....Length: 7
0000000 00 .....Institute: CCITT
0010001 11 .....Spec Letter: Q
0000110 86 .....Spec Number: 773
0000101 05 .....
0000001 01 .....Sub Spec Number: 1
0000001 01 .....dialoguePDU (1)
0000001 01 .....Version Number:1
+100000 A0 .....TAG: ASN.1 type
-----00 .....Bit Len Ext.
1101 .....Unreas: 221
1102 .....Rnater: 388
1103 .....Busyter: 468
1104 .....Otheres: 265
100001 A1 .....TAG: Application context name
-----09 .....Bit Len Ext.
001 .....Length: 9
000110 06 .....TAG: Object Identifier
-----07 .....Bit Len Ext.
111 .....Length: 7
00100 04 .....Institute: ccitt identified-organization
00000 00 .....isi(1)
00000 00 .....mobileDomain (0)
0000101 .....gsm-Network (1)
00000 00 .....ac-Id (0)
10100 14 .....shortMsgGatewayContext (20)
00010 02 .....Application Context Version 2 (2)
01100 6C .....##### Component portion #####
-----1F .....Bit Len Ext.
11 .....Length: 31
00001 .....Circuit: 538
-----1D .....Bit Len Ext.
01 .....Length: 29
001002 .....TAG: Invoke ID tag
-----01 .....Bit Len Ext.
01 .....Length: 1
----- invoke ID val: 001
001002 .....Op code tag: Local oper. Code tag
000101 .....Length: 1
1101 2D .....Operation Code: RoutingInfoForSM
ngInfoForSM-Arg ::=
268821628872'H
address indicator = international number
ng plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
8812268827
) TRUE,

```



S#7 Trace

(s)

```

de=B      Len= 107 EV=0 13Feb 2009 10:07:44.069
010001 E9 Bsn: 105
--- Bb: 1
010001D1Fsn: 81
--- Fib: 1
111111 3F LI: 63
--- MSU Message
0001: C3 ... SIO :SCCP
--- Sub Service Field :Reserved nat use
000001: 03 ... OPC: B72GSTL
0101: 4B ...
--- OPC: B72GTJR
000000 00 ...
001: 33 ...
--- SIS: 3
00100109 ... UVC :unitvoice
--- Protocol class
0001 01 ... Class: 1
--- Options: no special opt.
000011 03 ... Index to Called Party Address (Mandatory Parameter)
001110 0E ... Index to Calling Party Address (Mandatory Parameter)
011001 19 ... Index to User Data (Mandatory Parameter)
--- Called party address
001011 0B ... Length: 11
--- 12 ... Rout. base: Global title
--- National bit: 0
0 ... SPC present: no
0 ... SSN present: yes
--- Glob. Title present: yes
001100 06 ... SSN: HLR (MAP)
--- Global title 4
00000 00 ... Translation type: 0
01012 ... Encoding scheme: BCD even number of digits
--- Numb. plan: ISDN/tel.(Rec.E.163,164)
0100 04 ... Nat. addr. ind.: internat. num
--- Spare
--- Addr. info(dgts): 628812268827
--- SEIZ: 6325
--- ANS: 4625
--- 12 ... Rout. base: Global title
--- National bit: 0
--- SPC present: no
--- SSN present: yes
--- Glob. Title present: yes
01000 08 ... SSN: MSC (MAP)
--- Global title 4
00000 00 ... Translation type: 0
01012 ... Encoding scheme: BCD even number of digits
--- Numb. plan: ISDN/tel.(Rec.E.163,164)
0100 04 ... Nat. addr. ind.: internat. num
--- Spare
--- Addr. info(dgts): 628964011091
--- User data
010145 ... Length: 69
--- MAP message
001062 ... TAG: Begin message
---43 ... Bit Len Ext.
1 ... Length: 67
--- ### ### Transaction portion #####
000 48 ... TAG: Orig.trans.id tag

```



```

0---- 04 ..... Bit Len Ext.
000100 ..... Length: 4
00111000 38 ..... Trans ID val: 943268609
00111001 39 .....
0010001123 .....
00000001 01 .....
##### Dialogue portion #####
01101011 6B ..... TAG: Dialogue Portion
0---- 1A ..... Bit Len Ext.
011010 ..... Length: 26
00101000 28 ..... TAG: External
0---- 18 ..... Bit Len Ext.
110000 ..... Length: 24
00001110 06 ..... TAG: Object Identifier
0---- 07 ..... Bit Len Ext.
00111 ..... Length: 7
00000000 00 ..... Institute: CCITT
00010001 11 ..... Spec Letter: Q
00001110 85 ..... Spec Number: 773
0000101 05 .....
00000001 01 ..... Sub Spec Number: 1
00000001 01 ..... dialoguePDU (1)
0010001 01 ..... Version Number: 1
01000000 A0 ..... TAG: ASN1 type
----- 0D ..... Bit Len Ext.
11101 ..... Unreas: 401
11102 ..... Rnater: 406
11103 ..... Busyter: 754
11104 ..... Others: 356
0100001 A1 ..... TAG: Application context name
----- 09 ..... Bit Len Ext.
0001 ..... Length: 9
0000110 06 ..... TAG: Object Identifier
0---- 07 ..... Bit Len Ext.
0111 ..... Length: 7
000100 04 ..... Institute: cotti-identified-organization
000000 00 ..... etsI (0)
000000 00 ..... mobileDomain (0)
00000101 ..... gsm-Network(1)
000000 00 ..... ac-Id (0)
010100 14 ..... shortMsgGatewayContext (20)
00010002 ..... Application Context Version 2 (2)
101100 6C ..... ##### Component portion #####
----- 1F ..... Bit Len Ext.
111 ..... Length: 31
000001 ..... Circuit: 538
----- 1D ..... Bit Len Ext.
101 ..... Length: 29
000010 02 ..... TAG: Invoke ID tag
----- 01 ..... Bit Len Ext.
001 ..... Length: 1
----- ..... Invoke ID val: 001
00010 02 ..... Op code tag: Local oper. Code tag
000001 01 ..... Length: 1
01101 2D ..... Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg ::=
91268821628872'H
of address indicator = international number
ing plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
528812268827
PRI TRUE,

```



S#7 Trace

3(s)

de=B Len= 107 EV=0 14Feb 2009 10:24:55.060

1101001 E9Bsn 105

--- Bb: 1

1010001 D1 Fax 61

--- Sb: 1

11111113 F LI: 63

--- MSU Message

---0011C3 ... SIO :SCCP

--- ... Sub Service Field :Reserved nat use

0000011 03DPC: B72GSTL

001011 4B

..... OPC: B72GTJR

0000000 00.....

---0011 33

1--- SLS: 3

0001001 09UVC :unitvoice

--- Protocol class

---000101 Class:1

0--- Options to special opt.

000001103 Index to Called Party Address (Mandatory Parameter)

0001110 0E Index to Calling Party Address (Mandatory Parameter)

0011001 19 Index to User Data (Mandatory Parameter)

--- Called party address

00010110B Length: 11

----- 12 Rout. base: Global title

--- National bit: 0

0- SPC present: no

1- SSN present: yes

00-- Glob. Title present: yes

000110 06 SSN: HLR (MAP)

--- Global title 4

000000 00 Translation type: 0

---0010 12 Encoding scheme: BCD even number of digits

--- Numb.plan: ISDN/tel.(Rec.E.163,164)

000100 04 Nat.addr.ind: Internat.num

--- Spare

--- Addr.info(dgts): 628812268827

--- SEIZ: 8214

--- ANS: 5684

----- 12 Rout. base: Global title

--- National bit: 0

0- SPC present: no

1- SSN present: yes

00-- Glob. Title present: yes

001000 08 SSN: MSC (MAP)

--- Global title 4

000000 00 Translation type: 0

---0010 12 Encoding scheme: BCD even number of digits

--- Numb.plan: ISDN/tel.(Rec.E.163,164)

000100 04 Nat.addr.ind: Internat.num

--- Spare

--- Addr.info(dgts): 628964011091

--- User data

000101 45 Length: 69

--- MAP message

0001062 TAG: Begin message

---43 Bit Len Ext.

011 Length: 67

--- ##### # Transaction portion #####

001000 48 TAG: Orig.trans.id tag



```

0----- 04 ..... Bit Len Ext.
000100 ..... Length: 4
00111000 38 ..... Trans ID val: 943268609
00111001 39 .....
00100011 23 .....
00000001 01 .....
----- 00000001 Dialogue portion #####
01100111 6E ..... TAG: Dialogue Portion
0----- 1A ..... Bit Len Ext.
0111010 ..... Length: 26
00101000 2H ..... TAG: External
----- 18 ..... Bit Len Ext.
01000 ..... Length: 24
00000110 06 ..... TAG: Object Identifier
----- 07 ..... Bit Len Ext.
00111 ..... Length: 7
00000000 00 ..... Institute: CCITT
0010001 11 ..... Spec Letter: Q
0000110 86 ..... Spec Number: 773
0000101 05 .....
0000001 01 ..... Sub Spec Number: 1
0000001 01 ..... dialoguePDU (1)
0000001 01 ..... Version Number: 1
0100000 A0 ..... TAG: ASN.1 type
----- 0D ..... Bit Len Ext.
01101 ..... Unreas: 409
01102 ..... Rnater: 683
01103 ..... Busyter: 683
01104 ..... Otheres: 421
0100001 81 ..... TAG: Application context name
----- 09 ..... Bit Len Ext.
01001 ..... Length: 9
0000110 06 ..... TAG: Object Identifier
----- 07 ..... Bit Len Ext.
0111 ..... Length: 7
000100 04 ..... Institute: ccitt-identified-organization
000000 00 ..... etsi (0)
000000 00 ..... mobileDomain (0)
000001 01 ..... gsm-Network (1)
000000 00 ..... ac-Id (0)
010100 14 ..... shortMsgGatewayContext (20)
000010 02 ..... Application Context Version 2 (2)
010110 06C ..... ##### Component portion #####
----- 1F ..... Bit Len Ext.
0111 ..... Length: 31
000001 ..... Circuit: 538
----- 1D ..... Bit Len Ext.
0101 ..... Length: 29
000010 02 ..... TAG: Invoke ID tag
----- 01 ..... Bit Len Ext.
001 ..... Length: 1
----- Invoke ID val: 001
000010 02 ..... Op code tag: Local oper. Code tag
0000001 ..... Length: 1
011012 D ..... Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg ==
01268821628872'H
of address indicator = international number
ing plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
28812268827
PRI TRUE.

```



S#7 Trace

(s)

de=B Len= 107 EV=0 15Feb 2009 10:14:20.072

0101001 E9 Bsn 105

00000001 Bb 1

0100001 D1Fsn 81

00000001 Fib 1

01111113 FLI 63

00000001 MSU Message

0001 C3 ... SIO :SCCP

00000001 Sub Service Field :Reserved nat use

0000011 03DPC: B72GSTL

001011 4B

00000001 OPG: B72G1JR

00000000 00

0001 33

00000001 SIS 3

001001 09 ...UVC :unitvoice

00000001 Protocol class

0001 01Class 1

00000001 Options: no special opt.

000011 03Index to Called Party Address (Mandatory Parameter)

0011100EIndex to Calling Party Address (Mandatory Parameter)

011001 19Index to User Data (Mandatory Parameter)

00000001 Called party address

0010110BLength: 11

00000012Rout.base: Global title

00000000National bit: 0

00000000SPC present: no

00000000SSN present: yes

00000000Glob.Title present: yes

000110 06SSN: HLR (MAP)

00000000Global title 4

00000000Translation type: 0

00101012Encoding scheme: BCD even number of digits

00000000Numb.plan: ISDN/tel.(Rec.E.163,164)

00100 04Nat.addr.ind: internat.num

00000000Spare

00000000Addr.info(dgts): 628812268827

00000000 SEIZ: 4641

00000000 ANS: 3446

00000012Rout.base: Global title

00000000National bit: 0

00000000SPC present: no

00000000SSN present: yes

00000000Glob.Title present: yes

01000 08SSN: MSC (MAP)

00000000Global title 4

00000000Translation type: 0

010 12Encoding scheme: BCD even number of digits

00000000Numb.plan: ISDN/tel.(Rec.E.163,164)

0100 04Nat.addr.ind: internat.num

00000000Spare

00000000Addr.info(dgts): 628964011091

00000000User data

00101 45Length: 69

00000000MAP message

0001062TAG: Begin message

00000043Bitten Ext.

00000001length: 67

00000000# ##### Transaction portion #####

000048TAG: Orig.trans.id tag



```

0-----04 .....Bit Len Ext.
000100 .....Length: 4
00111000 38 .....TAG: Invoke ID val: 943268609
00111001 49 .....
0010001123 .....
00000001 01 .....
-----##### Dialogue portion #####
0110101 b B .....TAG: Dialogue Portion
0-----1A .....Bit Len Ext.
111010 .....Length: 26
00101000 28 .....TAG: External
1-----18 .....Bit Len Ext.
11000 .....Length: 24
0000110 06 .....TAG: Object Identifier
-----07 .....Bit Len Ext.
00111 .....Length: 7
0000000 00 .....Institute: CCITT
0010001 11 .....Spec Letter: Q
0000110 86 .....Spec Number: 773
0000101 05 .....
0000001 01 .....Sub Spec Number: 1
0000001 01 .....dialoguePDU(1)
0000001 01 .....Version Number: 1
0000000 A0 .....TAG: ASN.1 type
-----0D .....Bit Len Ext.
1101 .....Unreas: 233
1102 .....Rnaler: 385
1103 .....Busyter: 545
1104 .....Otheres: 315
100001 A1 .....TAG: Application context name
-----09 .....Bit Len Ext.
0001 .....Length: 9
000110 06 .....TAG: Object Identifier
-----07 .....Bit Len Ext.
0111 .....Length: 7
000100 04 .....Institute: ccitt-identified-organization
000000 00 .....etsi (0)
000000 00 .....mobileDomain (0)
000001 01 .....gsm-Network (1)
000000 00 .....acId (0)
10100 14 .....shortMsgGatewayContext (20)
000100 02 .....Application Context Version 2 (2)
011006C .....##### Component portion #####
-----1F .....Bit Len Ext.
0111 .....Length: 31
00001 .....Circuit: 538
-----1D .....Bit Len Ext.
01 .....Length: 29
0001002 .....TAG: Invoke ID tag
-----01 .....Bit Len Ext.
01 .....Length: 1
-----Invoke ID val: 001
000110 02 .....Op code tag: Local oper. Code tag
00001 01 .....Length: 1
1101 2D .....Operation Code: RoutingInfoForSM
ngInfoForSM-Arg :=
1268821628872'H
f address indicator = International number
ng plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
268812268827
RI TRUE;

```



S#7 Trace

(s)

De=B Len= 107 EV=0 16Feb 2009 10:51:20.067

0101001 E9 Bsn : 105

Bib : 1

01000101 Fm : 81

Fb : 1

111113FLI : 63

MSJ Message

0011031 SIO : SCOP

Sub Service Field :Reserved nat use

00000103DPC: B72GSTL

0100114B

.....OPC: B72GTR

00000000

001133

.....SLS: 3

00100109UVC :unitvoice

.....Protocol class

000101Class: 1

.....Options: no special opt.

00001103.....Index to Called Party Address (Mandatory Parameter)

0111000EIndex to Calling Party Address (Mandatory Parameter)

01100119Index to User Data (Mandatory Parameter)

.....Called party address

010110BLength: 11

----12Rout.base: Global title

.....National bit: 0

.....SPC present: no

.....SSN present: yes

.....Glob.Title present: yes

0011006SSN: HLR (IMAP)

.....Global title 4

00000000Translation type: 0

01012Encoding scheme: BCD even number of digits

.....Numb plan: ISDN/tel.(Rec.E.163,164)

010004Nat.addr.ind: internal_num

.....Spare

.....Addr.info(dgts): 628812268827

.....SEIZ: 5422

.....ANS: 4235

--12Rout.base: Global title

.....National bit: 0

.....SPC present: no

.....SSN present: yes

.....Glob.Title present: yes

100008SSN: MSC (MAP)

.....Global title 4

00000000Translation type: 0

01012Encoding scheme: BCD even number of digits

.....Numb plan: ISDN/tel.(Rec.E.163,164)

010004Nat.addr.ind: internal_num

.....Spare

.....Addr.info(dgts): 628964011091

.....User data

010145Length: 69

.....MAP message

01062TAG: Begin message

-43BilLen Ext

iLength: 67

.....##### Transaction portion #####

00048TAG: Orig.trans.id tag

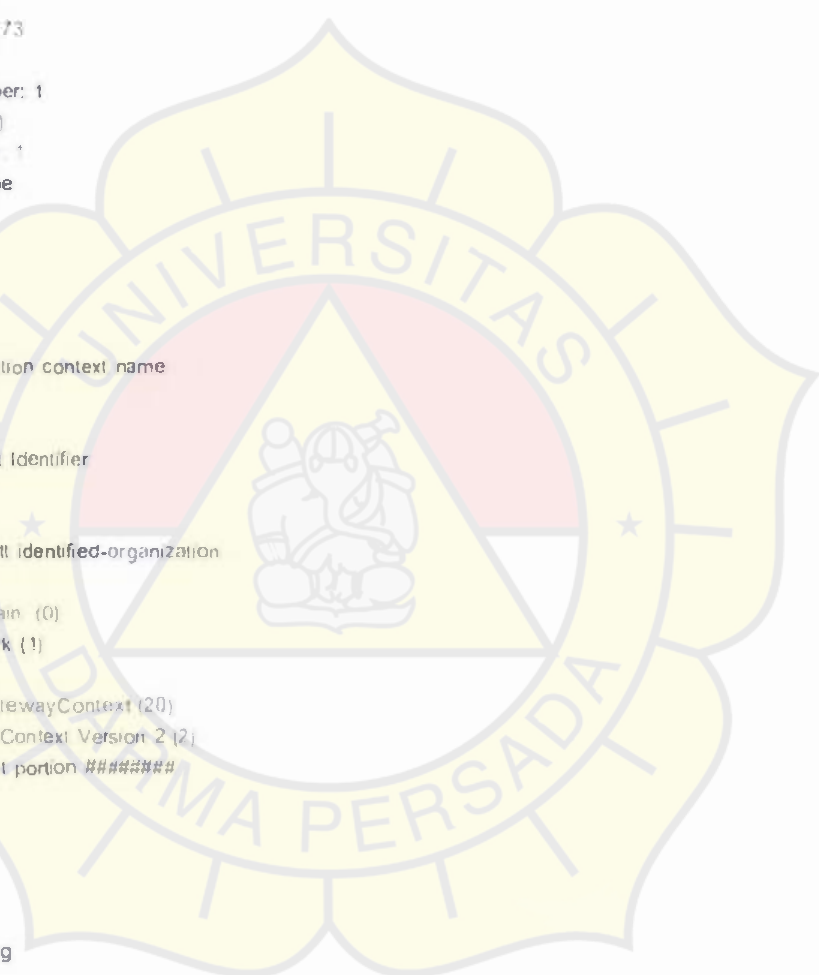


```

0-----04 .....Bit Len Ext.
000100 .....Length: 4
0011100038 .....Trans ID val: 943268609
00111001 39 .....
00100011 23 .....
00000001 01 .....
##### Dialogue portion #####
01101011 6B .....TAG: Dialogue Portion
0-----1A .....Bit Len Ext.
11010 .....Length: 26
00101000 28 .....TAG: External
0-----18 .....Bit Len Ext.
11000 .....Length: 24
00001100 06 .....TAG: Object Identifier
0-----07 .....Bit Len Ext.
00111 .....Length: 7
00000001 00 .....Institute: CCITT
0010001 11 .....Spec Letter: Q
0000110 86 .....Spec Number: 773
0000101 05 .....
0000001 01 .....Sub Spec Number: 1
0000001 01 .....dialoguePDU (1)
0000001 01 .....Version Number: 1
0100000 A0 .....TAG: ASN.1 type
0-----00 .....Bit Len Ext.
11101 .....Unreas: 364
11102 .....Rnater: 355
11103 .....Busyier: 581
11104 .....Otheres: 296
0100001 A1 .....TAG: Application context name
0-----09 .....Bit Len Ext.
1001 .....Length: 9
1000110 06 .....TAG: Object Identifier
0-----07 .....Bit Len Ext.
0111 .....Length: 7
000100 04 .....Institute: ccitt identified-organization
000000 00 .....etsi (0)
000000 00 .....mobileDomain (0)
000001 01 .....gsm-Network (1)
000000 00 .....ac-Id (0)
010100 14 .....shortMsgGatewayContext (20)
000010 02 .....Application Context Version 2 (2)
101100 6C .....##### Component portion #####
0-----1F .....Bit Len Ext.
111 .....Length: 31
100001 .....Circuit: 500
0-----1D .....Bit Len Ext.
101 .....Length: 29
100010 02 .....TAG: Invoke ID tag
0-----01 .....Bit Len Ext.
001 .....Length: 1
0-----Invoke ID val: 001
00010 02 .....Op code tag: Local oper. Code tag
00001 01 .....Length: 1
01101 2D .....Operation Code: RoutingInfoForSM
RoutingInfoForSM-Arg :=

31268821628872'H
cf address indicator = international number
ing plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
28812268827

```



RI TRUE

S#7 Trace

e(s)

id=8 Len= 107 F2=0 17 Feb 2009 10:09:28.025

1*01031F9B Sin 105

--- Bils: 1

1010001D1F Sin 81

--- Fb: 1

1111113FLI 63

--- MSU Message

--0011C3 --- SIO :SCCP

--- Sub Service Field :Reserved nat use

0000011 03 --- DPC: B72GSTL

001011 48 ---

--- OPC: B72GTJR

000000 00 ---

--0011 33 ---

--- SLS: 3

000100109 ---UVC :unitvoice

-- --- Protocol class

-0001 01 --- Class: 1

--- Options: no special opt

000011 03 --- Index to Called Party Address (Mandatory Parameter)

001110 0E --- Index to Calling Party Address (Mandatory Parameter)

011001 1R --- Index to User Data (Mandatory Parameter)

--- Called party address:

001011 0B --- Length: 11

--- 12 --- Rout base: Global title

--- National bit: 0

0 --- SPC present: no

0 --- SSN present: yes

0 --- Glob Title present: yes

000110 06 --- SSN: HLR (MAP)

--- Global title 4

000000 00 --- Translation type 0

0010 12 --- Encoding scheme: BCD even number of digits

--- Numb plan: ISDN/tel (RecE.163,164)

00100 04 --- Nat addr ind: internal num

--- Spare

--- Addr info(dgts): 6288 12268827

--- SEIZ: 5357

--- ANS: 4233

--- 12 --- Rout base: Global title

--- National bit: 0

0 --- SPC present: no

0 --- SSN present: yes

0 --- Glob Title present: yes

01000 08 --- SSN: MSC (MAP)

--- Global title 4

000000 00 --- Translation type: 0

0010 12 --- Encoding scheme: BCD even number of digits

--- Numb plan: ISDN/tel (RecE.163,164)

00100 04 --- Nat addr ind: internal num

--- Spare

--- Addr info(dgts): 628964011091

--- User data

00101 45 --- Length: 69

--- MAP message

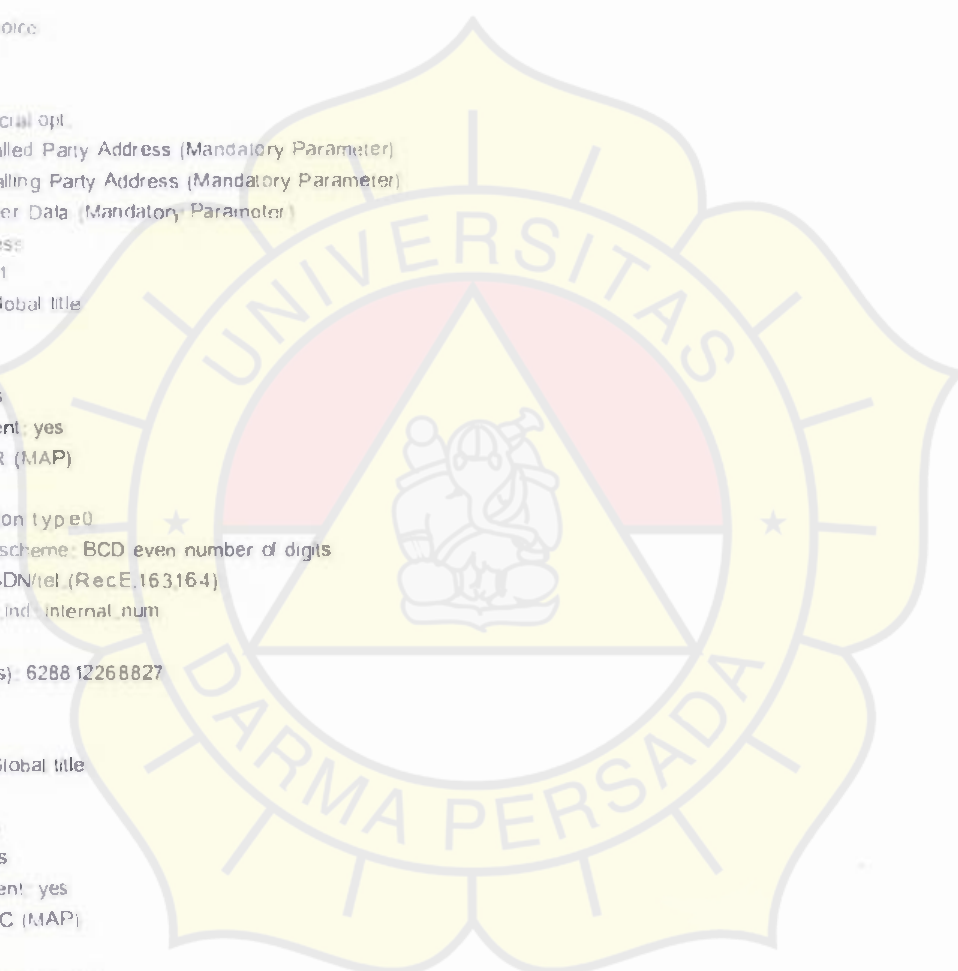
00010 62 --- TAG: Begin message

--- 43 --- Billen Ext.

11 --- length: 67

--- ##### Transaction portion #####

01000 48 --- TAG: Orig.trans.id tag




```

000004 ..... Bit Len Ext.
000100 ..... Length: 4
0011100038 ..... Trans ID val: 943268609
0011100139 .....
0010001123 .....
0000000101 .....
##### Dialogue portion #####
1110101168 ..... TAG Dialogue Portion
000011 ..... Bit Len Ext.
11010 ..... Length: 26
010100028 ..... TAG External
000015 ..... Bit Len Ext.
11000 ..... Length: 24
000011006 ..... TAG Object Identifier
000007 ..... Bit Len Ext.
00111 ..... Length: 7
00000000 ..... Institute: CCITT
00100011 ..... Spec Letter: Q
000011086 ..... Spec Number: 773
000010105 .....
000000101 ..... Sub Spec Number: 1
00000101 ..... dialoguePDU (1)
000000101 ..... Version Number: 1
1100000A0 ..... TAG: ASN.1 type
000000 ..... Bit Len Ext.
1101 ..... Unreas: 293
1102 ..... Rrater: 452
1103 ..... Busyter: 571
1104 ..... Others: 302
110001A1 ..... TAG Application context name
000009 ..... Bit Len Ext.
11011 ..... Length: 9
00011006 ..... TAG Object Identifier
000007 ..... Bit Len Ext.
11111 ..... Length: 7
00010004 ..... Institute: ccitt identified-organization
00000000 ..... etsi (0)
00000000 ..... mobileDomain (0)
00000101 ..... gsm-Network (1)
00000000 ..... ac-Id (0)
11010014 ..... shortMsgGatewayContext (20)
00001002 ..... Application Context Version 2 (2)
011006C ..... ##### Component portion #####
00001F ..... Bit Len Ext.
111 ..... Length: 31
00001 ..... Circuit: 538
00001D ..... Bit Len Ext.
101 ..... Length: 29
0001002 ..... TAG Invoke ID tag
000001 ..... Bit Len Ext.
101 ..... Length: 1
0000 ..... Invoke ID val: 001
0001002 ..... Op code tag: Local oper. Code: tag
0000101 ..... Length: 1
111012D ..... Operation Code: RoutingInfoForSM
trgInfoForSM-Arg =

```

#1268821628872'H

if address indicator = international number

ng plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)

28812268827

RI TRUE.

S#7 Trace

p(s)

```

de=8      Len= 107 EV=0 18 Feb 2009 10:08:54.081
101001 E9 Bsn 105
-- Bb: 1
010001D1 Fsn 81
-- Fib: 1
111111 3FLI 63
-- MS: UMessage
-0001C3 ...SIO: SCCP
-- ...Sub Service Field: Reserved nat use
000011 03 ...DPC: B72GSTL
01011: 4B ...
...OPC: B72GTJR
000000 00 ...
-0011 33 ...
-- ...SLS: 3
001001 09 ...UVC: Unitvoice
-- ...Protocol class
0001 01 ...Class: 1
-- ...Options: no special opt.
000011 03 ...Index to Called Party Address (Mandatory Parameter)
001110 0E ...Index to Calling Party Address (Mandatory Parameter)
010001 19 ...Index to User Data (Mandatory Parameter)
-- ...Called party address
001011 0B ...Length: 11
-- 12 ...Rout base: Global title
- ...National bit: 0
) ...SPC present: no
- ...SSN present: yes
)- ...Glob Title present: yes
000110 06 ...SSN: HLR (MAP)
-- ...Global title 4
000000 00 ...Translation type: 0
001012 ...Encoding scheme: BCD even number of digits
+ ...Numb plan: ISDN/tel (Rec.E.163,164)
001000 04 ...Nat. addr. ind.: international num
...Spare
-- ...Addr. info(dgts): 628812268827
-- ...SEIZ: 80H
-- ...ANS: 6241
-- 12 ...Rout. base: Global title
...National bit: 0
...SPC present: no
...SSN present: yes
-- ...Glob Title present: yes
010000 08 ...SSN: MSC (MAP)
-- ...Global title 4
000000 00 ...Translation type: 0
010112 ...Encoding scheme: BCD even number of digits
+ ...Numb plan: ISDN/tel (Rec.E.163,164)
010000 04 ...Nat. addr. ind.: international num
...Spare
-- ...Addr. info(dgts): 628964011091
-- ...User data
0101 45 ...Length: 69
-- ...MAP message
0010 62 ...TAG: Begin message
-- 43 ...Bc Len Ext
11 ...Length: 67
- ...***** Transaction portion *****
1000 48 ...TAG: Orig/transid tag

```

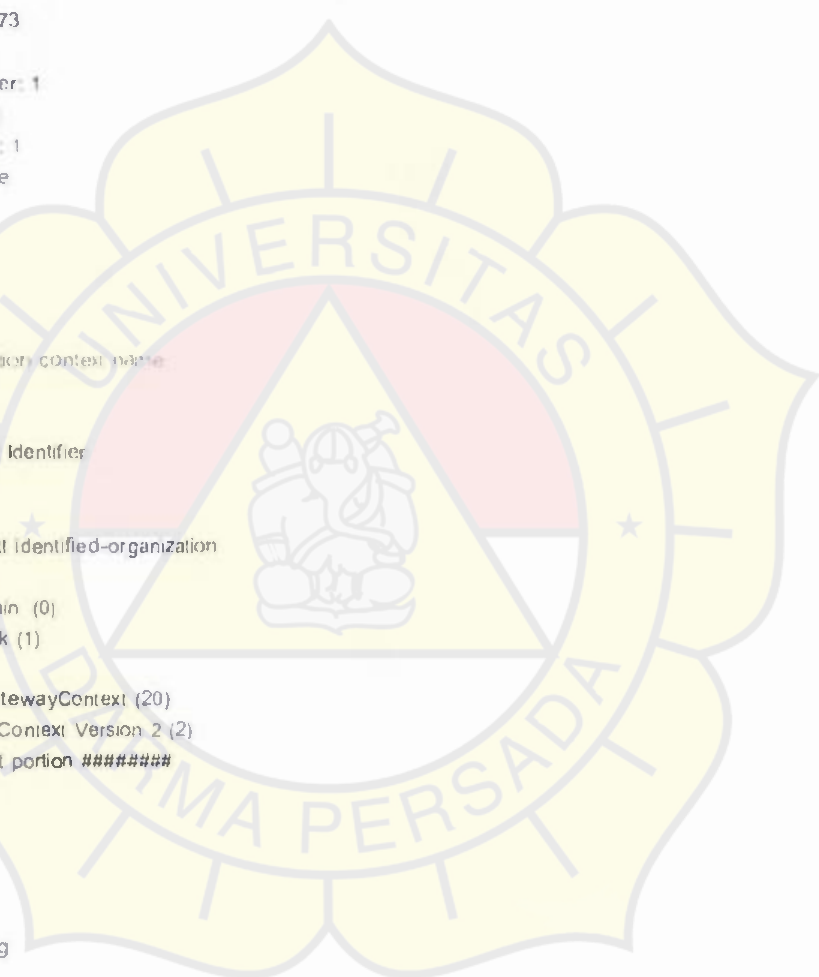


```

0-----04 ..... Bit Len Ext
000100 ..... Length: 4
00111010 36 ..... Trans ID val: 943268609
00111010 39 .....
0010001123 .....
00001001 01 .....
##### Dialogue portion #####
11101011 6B ..... TAG: Dialogue Portion
1-----1A ..... Bit Len Ext
11010 ..... Length: 26
10101000 28 ..... TAG: External
1-----18 ..... Bit Len Ext
11000 ..... Length: 24
0000110 06 ..... TAG: Object Identifier
-----07 ..... Bit Len Ext
00111 ..... Length: 7
0000000 00 ..... Institute: CCITT
00100011 ..... Spec Letter: Q
0000110 86 ..... Spec Number: 773
0000101 05 .....
0000001 01 ..... Sub Spec Number: 1
0000001 01 ..... dialoguePDU (1)
0000001 01 ..... Version Number: 1
1100000 A0 ..... TAG: ASN1 type
-----0D ..... Bit Len Ext
1101 ..... Unreas: 488
1102 ..... Rnaler: 570
1103 ..... Busyter: 801
1104 ..... Others: 423
100001 A1 ..... TAG: Application context name
-----09 ..... Bit Len Ext
1001 ..... Length: 9
000110 06 ..... TAG: Object Identifier
-----07 ..... Bit Len Ext
1111 ..... Length: 7
000100 04 ..... Institute: ccitt identified-organization
000000 00 ..... etsi (0)
000000 00 ..... mobileDomain (0)
000001 01 ..... gsm-Network (1)
000000 00 ..... ac-Id (0)
110100 14 ..... shortMsgGatewayContext (20)
100010 02 ..... Application Context Version 2 (2)
01100 6C ..... ##### Component portion #####
-----1F ..... Bit Len Ext
1111 ..... Length: 31
00001 ..... Circuit: 538
-----1D ..... Bit Len Ext
01 ..... Length: 29
00010 02 ..... TAG: Invoke ID tag
--01 ..... Bit Len Ext
001 ..... Length: 1
-- ..... InvokeID val: 001
00010 02 ..... Op code tag: Local oper. Code tag
00001 01 ..... Length: 1
11101 2D ..... Operation Code: RoutingInfoForSM
:ngInfoForSM-Arg ::=

1268821628872'H
f address indicator = international number
ng plan indicator = ISDN/Telephony Numbering Plan (Rec CCITT E.164)
28812268827

RI TRUE,
    
```



S#7 Trace

(s)

le=B Len= 107 EV=0 19Feb 2009 10:44:33.001

01001E9Rsn: 106

-- File 1

010001D1Fsn: 81

-- File 1

010111F11: 63

-- MSU Message

0011C3: SIO: SCCP

-- Sub Service Field: Reserved nat use

00001103: DFC: B72GSTL

010114B: ...

-- OPC: B72GTJR

000000 00: ...

001133: ...

-- SLS: 3

01010109: UVC: unitvoice

-- Protocol class

000101: Class: 1

-- Options: no special opt.

0000103: Index to Called Party Address (Mandatory Parameter)

011100E: Index to Calling Party Address (Mandatory Parameter)

01100119: Index to User Data (Mandatory Parameter)

-- Called party address

010110B: Length: 11

-- 12: Rout base: Global title

.....National bit: 0

.....SPC present: no

.....SSN present: yes

-- Glob Title present: yes

0011006: SSN: HLR(MAP)

-- Global title: 4

00000000: Translation type: 0

010112: Encoding scheme: BCD even number of digits

-- Numb plan: ISDNtel.(Rec.E.163,164)

010004: Nat. addr.ind: internal.num

.....Spare

-- Addr info(dgts): 628812268827

-- SEIZ: 7804

-- ANS: 5930

-- 12: Rout base: Global title

.....National bit: 0

.....SPC present: no

.....SSN present: yes

-- Glob Title present: yes

000008: SSN: MSC (MAP)

-- Global title: 4

00000000: Translation type: 0

010112: Encoding scheme: BCD even number of digits

-- Numb plan: ISDNtel.(Rec.E.163,164)

010004: Nat. addr.ind: internal.num

.....Spare

-- Addr info(dgts): 628964011091

-- User data

010145: Length: 69

.....MAP message

010162: TAG: Begin message

-- 43: Bit LenExt

.....Length: 67

.....##### Transaction portion #####

00048: TAG: Origtrans.id tag

