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Message Transfer Part Level 3
  Service information octet
    11.. .... = Network indicator: Reserved for national use (0x03) // subservice 参数 chan_ss7.conf
    ..00 .... = Spare: 0x00
    .... 0101 = Service indicator: ISUP (0x05) // 目前chan ss7 只支持ISUP, 不支持 SCCP 0011 = Service indicator: SCCP (0x03)
  Routing label
   .... 1011 0100 0000 10.. .... = OPC: 11522 // chan ss7.conf
    0101 .... = Signalling Link Selector: 5 //SLS
ISDN User Part
  CIC: 213 // CIC in chan_ss7
  Message type: Initial address (1)
  Nature of Connection Indicators: 0x0
    Mandatory Parameter: 6 (Nature of connection indicators)
    .... ..00 = Satellite Indicator: No Satellite circuit in connection (0x00)
    .... 00.. = Continuity Check Indicator: Continuity check not required (0x00)
    ...0 .... = Echo Control Device Indicator: Echo control device not included
  Forward Call Indicators: 0xa001
    Mandatory Parameter: 7 (Forward call indicators)
    ......0 ..... = National/international call indicator: Call to be treated as national call
    ..... .00. .... = End-to-end method indicator: No End-to-end method available (only link-by-link method available) (0x0000)
    .... 0... .... = Interworking indicator: no interworking encountered (No.7 signalling all the way)
    ...0 .... .... = End-to-end information indicator: no end-to-end information available
    ..1. .... = ISDN user part indicator: ISDN user part used all the way
    10...... .... = ISDN user part preference indicator: ISDN user part required all the way (0x0002)
    .... .... .... 1 = ISDN access indicator: originating access ISDN
    .... .... .00. = SCCP method indicator: No indication (0x0000)
  Calling Party's category: 0xa (ordinary calling subscriber)
    Mandatory Parameter: 9 (Calling party's category)
    Calling Party's category: ordinary calling subscriber (0x0a)
  Transmission medium requirement: 2 (64 kbit/s unrestricted)
    Mandatory Parameter: 2 (Transmission medium requirement)
    Transmission medium requirement: 64 kbit/s unrestricted (2)
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Called Party Number: 4891F
  Mandatory Parameter: 4 (Called party number)
  Pointer to Parameter: 2
  Parameter length: 5
  1... .... = Odd/even indicator: odd number of address signals
   .000 0001 = Nature of address indicator: subscriber number (national use) (1)
  1... ... = INN indicator: routing to internal network number not allowed
   .001 .... = Numbering plan indicator: ISDN (Telephony) numbering plan (1)
  Called Party Number: 4891F
     .... 0100 = Address signal digit: 4 (4)
     1000 .... = Address signal digit: 8 (8)
     .... 1001 = Address signal digit: 9 (9)
     0001 .... = Address signal digit: 1 (1)
     .... 1111 = Address signal digit: Stop sending (15)
     E.164 Called party number digits: 4891F
Pointer to start of optional part: 7
Calling Party Number: 3933399708
  Optional Parameter: 10 (Calling party number)
  Parameter length: 7
  0... .... = Odd/even indicator: even number of address signals
  .000 0011 = Nature of address indicator: national (significant) number (3)
  0... = NI indicator: complete
  .001 .... = Numbering plan indicator: ISDN (Telephony) numbering plan (1)
  .... 01.. = Address presentation restricted indicator: presentation restricted (1)
  ......11 = Screening indicator: network provided (3)
  Calling Party Number: 3933399708
     .... 0011 = Address signal digit: 3 (3)
     1001 .... = Address signal digit: 9 (9)
     \dots 0011 = Address signal digit: 3 (3)
     0011 .... = Address signal digit: 3 (3)
     \dots 0011 = Address signal digit: 3 (3)
     1001 .... = Address signal digit: 9 (9)
     \dots 1001 = Address signal digit: 9 (9)
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0111 .... = Address signal digit: 7 (7)
     .... 0000 = Address signal digit: 0 (0)
     1000 .... = Address signal digit: 8 (8)
     E.164 Calling party number digits: 3933399708
Optional forward call indicators: non-CUG call (128)
  Optional Parameter: 8 (Optional forward call indicators)
  Parameter length: 1
  .... ..00 = Closed user group call indicator: non-CUG call (0)
  .... .0.. = Simple segmentation indicator: no additional information will be sent
  1... .... = Connected line identity request indicator: requested
Access transport (5 bytes length)
  Optional Parameter: 3 (Access transport)
  Parameter length: 5
  Access transport parameter field (-> Q.931)
  Low-layer compatibility
     Information element: Low-layer compatibility
     Length: 3
     ...0 1000 = Information transfer capability: Unrestricted digital information (0x08)
     .00. .... = Coding standard: ITU-T standardized coding (0x00)
     1... .... = Extension indicator: last octet
     ...1 0000 = Information transfer rate: 64 kbit/s (0x10)
     .00. .... = Transfer mode: Circuit mode (0x00)
     1... .... = Extension indicator: last octet
     ...0 0110 = User information layer 1 protocol: Recommendation H.223 and H.245 (0x06)
     1... ... = Extension indicator: last octet
User service information, (3 bytes length)
  Optional Parameter: 29 (User service information)
  Parameter length: 3
  User service information (-> Q.931 Bearer capability)
   ...0 1000 = Information transfer capability: Unrestricted digital information (0x08)
   .00. .... = Coding standard: ITU-T standardized coding (0x00)
  1... .... = Extension indicator: last octet
  ...1 0000 = Information transfer rate: 64 kbit/s (0x10)
```

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.00. .... = Transfer mode: Circuit mode (0x00)
  1... ... = Extension indicator: last octet
  ...0 0110 = User information layer 1 protocol: Recommendation H.223 and H.245 (0x06)
  1... .... = Extension indicator: last octet
Propagation delay counter = 100 ms
  Optional Parameter: 49 (Propagation delay counter)
  Parameter length: 2
  Propagation delay counter = 100 ms
Location number: 00600001
  Optional Parameter: 63 (Location number)
  Parameter length: 6
  0... .... = Odd/even indicator: even number of address signals
  .000 0011 = Nature of address indicator: national (significant) number (3)
  1... ... = INN indicator: routing to internal network number not allowed
  .001 .... = Numbering plan indicator: ISDN (Telephony) numbering plan (1)
  .... 00.. = Address presentation restricted indicator: presentation allowed (0)
  ......11 = Screening indicator: network provided (3)
  Location number: 00600001
     \dots 0000 = Address signal digit: 0 (0)
     0000 .... = Address signal digit: 0 (0)
     .... 0110 = Address signal digit: 6 (6)
     0000 .... = Address signal digit: 0 (0)
     \dots 0000 = Address signal digit: 0 (0)
     0000 .... = Address signal digit: 0 (0)
     \dots 0000 = Address signal digit: 0 (0)
     0001 .... = Address signal digit: 1 (1)
Parameter Type unknown/reserved (5 Bytes)
  Optional Parameter: 244 (unknown)
  Parameter length: 5
Parameter compatibility information (2 bytes length)
  Optional Parameter: 57 (Parameter compatibility information)
  Parameter length: 2
  Upgraded parameter no: 1 = unknown (244)
```

Instruction indicators: 0x900 = Transit at intermediate exchange indicator: Transit interpretation0. = Release call indicator: do not release call0.. = Send notification indicator: do not send notification 0... = Discard message indicator: Do not discard message (pass on) ...1 = Discard parameter indicator: Discard parameter .00. = Pass on not possible indicator: Release call (0x00) 1... ... = Extension indicator: last octet End of optional parameters (0) 注意:chan ss7提供的信息可能不像以上例子那么完整,但是完全可以提供数据诊断。 具体信息和文档,请参考: http://wiki.wireshark.org/MTP3 http://www.voip-info.org/wiki/index.php?page=Asterisk+ss7+channels http://www.itu.int/rec/T-REC-Q.701/en Regards! James.zhu Email: james.zhu@openvox.cn, zhulizhong@gmail.com, QQ: 522137361 TOP

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