T300/T500 - ISDN trace

Sirrix ISDN cards

You can make an ISDN D-channel trace on the T300 / T500 using the tool SF DCH.jar

For creating the trace do the following:

- Make an SSH connection to the PBX and login as root. 1.
- On the command line, start the trace using the command: *dchmon* Do your test-calls 2.
- 3.
- 4.
- For stopping the D-channel trace, simply hit CTRL-C Select the output and copy this in the tool SFDCH tool 5.

File
tichmon 1300101399.358087 (0x2003) ECHO: 00 C3 7F 1300101399.864221 (0x2003) HEX: 00 C3 73 1300101399.864625 (0x2003) ECHO: 00 C3 00 00 08 01 03 05 04 03 80 90 A3 18 01 81 6C 03 21 A3 30 70 (1300101399.892716 (0x2003) HEX: 00 C3 01 02 1300101399.952110 (0x2003) HEX: 02 C3 00 02 08 01 83 7D 08 03 82 E4 6C 14 01 01
1300101399.358087 (0x2003) ECHO: 00 C3 7F 1300101399.864221 (0x2003) HEX: 00 C3 73 1300101399.864625 (0x2003) ECHO: 00 C3 00 00 08 01 03 05 04 03 80 90 A3 18 01 81 6C 03 21 A3 30 70 (1300101399.892716 (0x2003) HEX: 00 C3 01 02 1300101399.952110 (0x2003) HEX: 02 C3 00 02 08 01 83 7D 08 03 82 E4 6C 14 01 01
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1300101399.952110 (0x2003) HEX: 02 C3 00 02 08 01 83 7D 08 03 82 E4 6C 14 01 01
1300101399.952450 (0x2003) ECHO: 02 C3 01 02
1300101399.967971 (0x2003) HEX: 02 C3 02 02 08 01 83 02 18 01 89
1300101399.968229 (0x2003) ECHO: 02 C3 01 04
1300101400.964614 (0x2003) HEX: 02 C3 04 02 08 01 83 03 1E 02 82 82
1300101400.964905 (0x2003) ECHO: 02 C3 01 06
1300101400.985493 (0x2003) HEX: 02 C3 06 02 08 01 83 07 29 06 0B 03 0E 0C 10 29 4C 02 00 C3
1300101400.985887 (0x2003) ECHO: 02 C3 01 08
1300101400.988499 (0x2003) ECHO: 00 C3 02 08 08 01 03 0F
1300101401.004609 (0x2003) HEX: 00 C3 01 04
1300101405.037207 (0x2003) ECHO: 00 C3 04 08 08 01 03 45 08 02 80 90
1300101405.052169 (0x2003) HEX: 00 C3 01 06
1300101405.178125 (0x2003) HEX: 02 C3 08 06 08 01 83 4D 08 02 80 90
1300101405.178430 (0x2003) ECHO: 02 C3 01 0A
1300101405.179190 (0x2003) ECHO: 00 C3 06 0A 08 01 03 5A
1300101405.197222 (0x2003) HEX: 00 C3 01 08
A
decode clear

Click on **decode** to analyse the trace.

🖬 STARFACE D-Channel-Analyzer	×
File	
dchmon 0x2003	
2011/03/14 12:16:39.864 : TE -> NT : '(0x2003) ECHO: 00 C3 00 00 08 01 03 05 04 03 80 90 A3 18 01 81 6	-
tei = 97	
Layer 3 Data:	
PD = 0x08 = DSS1	
CR = 0x03 = 3	
MT = 0x05 = SETUP	
IE_IDENTIFIER = 0x04 = BEARER CAPABILITY	
CODING STANDARD = 0x00 = CCITT	
INF, TRANSF, CAP, = 0x00 = speech	
TRANSFER MODE = 0x00 = circuit mode	
INF. TRANSF. RATE = 0x10 = 64 kbit/s	
USER INF L1 PROT = 0x03 = 0.711 A-law	
IE_IDENTIFIER = 0x18 = CHANNEL ID	
IF IDENT PRESENT = 0	
INTERFACE TYPE = 0 = BRI	
PREFERRED / EXCL. = 0 = preferred	
D CHANNEL INDICAT = 0 = is not D channel	
INF. CHAN. SELECT = 1 = B1	
IE_IDENTIFIER = 0x6C = CALLING PARTY NUMBER	
TYPE OF NUMBER = 2 = national	
NUMBERING PLAN ID = 1 = ISDN/Telephone	
PRESENTATION INDI = 1 = hidden	
SCREENING INDICAT = 3 = network provided	
NUMBER_DIGITS = '0'	-

The following picture shows you how the physical lines can be matched to the numbers that are shown in the D-channel-Analyzer .



 Status ISDN line

 Active

 Point to MultiPoint line: at this moment the line is used to make phone calls.

 Point to Point line: line is idle or the line is used to make phone calls.



Digium ISDN cards

With the digium ISDN cards the tracing is different than the tracing at the Sirrix cards.

You have to connect via SSH to the linux console of your T300/500 and connect to the asterisk system.

asterisk -rvvv

To check the available spans, enter following command:

pri show spans

To start now a debug session enter following command:

pri debug span xx

Where xx is the number from the the previous 'show spans'-command.

when you have analyzed the session, you can deactivate the debug again:

pri no debug span xx