Here are some tips and Tricks regarding the SDTI Network.

Procedure

How to retrieve the current SDTI's server (role)

| Go to Debug Page 300 - | Find the 01 | 's value in | the column NS: |
|------------------------|-------------|-------------|----------------|
|------------------------|-------------|-------------|----------------|

| mi [10.46.143.108] Press ALT-C for CTRL-C and CTRL-TAB for ALT-TAB | - 🗆 × | | | | |
|--|---|--|--|--|--|
| 300 Status of Network Machines | | | | | |
| Status OF Hy Machine limeCode 15:24:08:23 Datelime 15:24:08 - 14/09/2012 Num 01/01 Hode : Network Software Config : Master/Server (7/1/1) Hardware Config : Master | | | | | |
| Network Machines Table On Index Number [OK] Normal Traffic | | | | | |
| S Ind Seria NS NU TM Name Chass T E NX NotifClp TOCo TOD TOQ St 000 10979 08 01 S1 XT1 X3 6U M T 0000007F 1310 000 032 Cnc 001 10977 02 03 S1 XT2 X3 6U M T 0000000FF 1310 000 032 Cnc 002 10977 02 03 S1 XT3 X3 6U M T 0000000FF 1310 000 032 Cnc 003 10982 07 04 S1 XT4 X3 6U M T 0000000FF 1310 000 032 Cnc 003 10982 07 04 S1 XT4 X3 6U M T 0000000FF 131 | Cn std std std std std std std | | | | |
| 007 11388 01 28 \$12 XT8 X3 60 H T 0000000FE 1310 000 032 Cnd 0007 11388 01 28 \$12 XT8 X3 60 H T 0000000FE 1310 000 032 Cnd 0007 11388 01 28 \$22 XT8 X3 60 H T 0000000FE 1310 000 032 Cnd | tđ | | | | |
| Gbe Only Connecting Connected Notified Disconnecting SDII Network v.02.15.02 - Sort: 0154 - 0178 - 0201 (uSec) Pages 01/01 - [Pgf/Pg4]Chge Pgs [Ctrl-I]Chge Idx [Ctrl-+/+]+ Infos [R]Rst Stat | | | | | |

When an XT (with the server's role) comes down, the XT with the higher Serial Number become the new server.

• Below, the trace in the mC_Sdti.log when the server comes down (In this example, 2C0E => Serial Number 11278)

01/04/13|18:46:21|090C06D7|C|1|1|Slave down <= Not In Tbl Mch NetSN 2C0E.

Below, the trace in the Mul_Sdti_Cmd.log when the server becomes the new server (In this example, Serial Number 11335)

01/04/13|18:46:34|090C094E|C|1|1|CGCN::itTaskSendCmd |\$0x0500|Current Master Hardware change to serial number 11335

Note: XFile cannot take the role of SDTI's server.

The SDTI's network is impacted only when the server comes down. The new server (higher Serial Number) will synchronize all XT's DB (present in the SDTI network).

This synchronization may take few minutes (related to the number of clips on each server).

If another server(in the SDTI's network) comes down, no interruptions should be seen on the network.

Token Ring

Here is the direction of a transfer in a SDTI's network (Type shift+F4 on the VGA):

| | | | | ODTI | IRAUOR | | | |
|---------|--------|---------|---------|-------|--------|--------|--------------|-------|
| SH+ESI | | UDLODED | | 2011 | NETWUR | K MUNI | TOP | RING |
| SULTION | STOR E | APLURER | | | | F6:KW1 | -F7 | ':KW2 |
| JUL | Sn | PrvSn | Name | CpLk | Frm | Mb | Ti | meOut |
| 512 | 114790 | 030790 | STD 1.2 | 00000 | 00000 | 37 | 4 | 5 |
| M11 | 030790 | 114510 | STD 1.1 | 00000 | ANNAN | 37 | Λ. | ด้ |
| M10 | 114510 | 114830 | PROD 3 | 00000 | 00000 | 37 | Λ | Ŕ |
| M29 | 114830 | 114820 | XFile 0 | 00000 | 00000 | 37 | \mathbf{I} | 4 |
| M28 | 114820 | 114520 | XFile 0 | 00000 | 00000 | 37 | \square | 24 |
| M09 | 114520 | 114500 | PROD 2 | 00000 | 00000 | 37 | | 0 |
| M08 | 114500 | 114470 | PROD 1 | 00000 | 00000 | 34 | | 2 |
| M05L | 114470 | 114110 | ING 5 | 00000 | 00000 | 32 | - r | 0 |
| M04 | 114110 | 114590 | ING 4 | 00000 | 00000 | 34 | | 8 |
| M03 | 114590 | 114560 | ING 3 | 00000 | 00000 | 34 | | 6 |
| MØZ | 114560 | 114550 | ING 2 | 00000 | 00000 | 34 | | 0 |
| M01 | 114550 | 114610 | ING 1 | 00000 | 00000 | 37 | | 0 |
| M07 | 114610 | 114600 | RD 3.4 | 00000 | 00000 | 37 | | 2 |
| M06 | 114600 | 114800 | RD 3.3 | 00000 | 00000 | 37 | | 32 |
| M14 | 114800 | 030820 | STD 2.2 | 00000 | 00000 | 37 | | 0 |

| SH+ESC:UGA EXPL | ORER | SDTI NETHORK F6 | MONITORING :KW1 F7:KW2 F | 8:SEARCH F9:C | .Za LIPS F10:PLST |
|----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|---------------------------------|----------------------------------|
| 12 STD 1.2 114790 S 06977 | 11 STD 1.1 030790 M∕A 06977 | 10 PROD 3 114510 M∕A 06977 | 29 XFile 0 114830 M 06976 | 28 XFile 0 114820 M 06976 | 09 PROD 2 114520 M∕A 06977 |
| 08 PROD 1 114500 M/A 06977 | 05 ING 5 114470/Loc M/A 06977 | 04 ING 4 114110 M/A 06976 | 03 ING 3 114590 M/A 06977 | 02 ING 2 114560 M/A 06977 | 01 ING 1 114550 M/A 06977 |
| 07 RD 3.4 114610 M/A 06977 | 06 RD 3.3 114600 M/A 06977 | 14 STD 2.2 114800 M/A 06977 | 13 STD 2.1 030820 M/A 06977 | | |
| | | C | | | |

SDTI Performance

The size of a "sdti" image is 72 lines of 1088 pixels. This image contains the transfert's data (64KB/image) and also some protocol's information. The value 1485 is in 10 bit but the transfered's data are in 8 bit. **Conclusion:** The maximum theoretical bandwidth is:

1485Mbps*(8/10)*(64*1024)/(72*1088) = **993 Mbps**

Applies To

Multicam, XFile