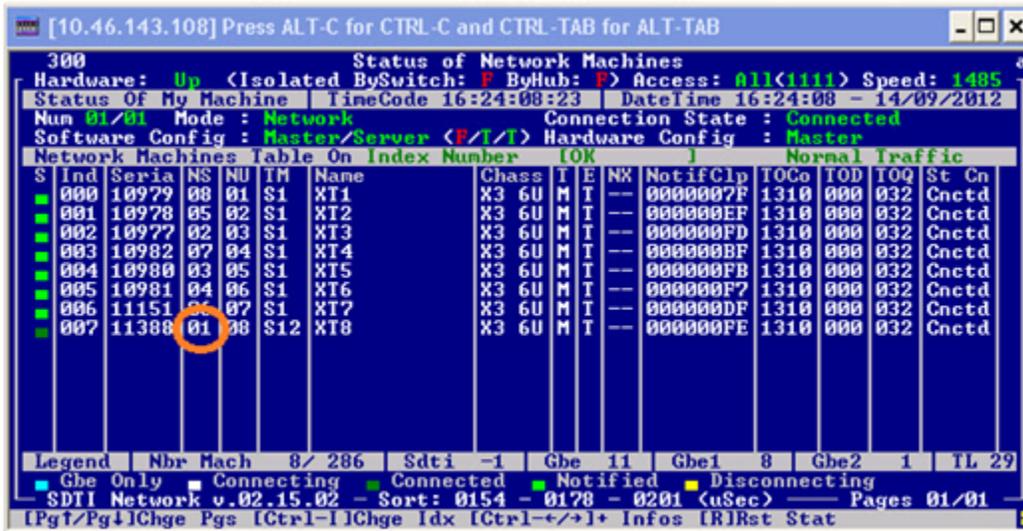


Here are some tips and Tricks regarding the SDTI Network.

## Procedure

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

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



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):

SDTI NETWORK MONITORING

SH+ESC:UGA EXPLORER F6:KW1 F7:KW2

SDTI	Sn	PrvSn	Name	CpLk	Frm	Mb	TimeOut
S12	114790	030790	STD 1.2	00000	00000	37	5
M11	030790	114510	STD 1.1	00000	00000	37	0
M10	114510	114830	PROD 3	00000	00000	37	0
M29	114830	114820	XFile 0	00000	00000	37	4
M28	114820	114520	XFile 0	00000	00000	37	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	0
M04	114110	114590	ING 4	00000	00000	34	0
M03	114590	114560	ING 3	00000	00000	34	8
M02	114560	114550	ING 2	00000	00000	34	6
M01	114550	114610	ING 1	00000	00000	37	0
M07	114610	114600	RD 3.4	00000	00000	37	0
M06	114600	114800	RD 3.3	00000	00000	37	2
M14	114800	030820	STD 2.2	00000	00000	37	32
							0

SDTI NETWORK MONITORING

SH+ESC:UGA EXPLORER F6:KW1 F7:KW2 F8:SEARCH F9:CLIPS F10:PLST

12 STD 1.2	11 STD 1.1	10 PROD 3	29 XFile 0	28 XFile 0	09 PROD 2
114790	030790	114510	114830	114820	114520
S 06977	M/A 06977	M/A 06977	M 06976	M 06976	M/A 06977
08 PROD 1	05 ING 5	04 ING 4	03 ING 3	02 ING 2	01 ING 1
114500	114470/Loc	114110	114590	114560	114550
M/A 06977	M/A 06977	M/A 06976	M/A 06977	M/A 06977	M/A 06977
07 RD 3.4	06 RD 3.3	14 STD 2.2	13 STD 2.1		
114610	114600	114800	030820		
M/A 06977	M/A 06977	M/A 06977	M/A 06977		

## SDTI Performance

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

$$1485\text{Mbps} * (8/10) * (64 * 1024) / (72 * 1088) = 993 \text{ Mbps}$$

## Applies To

Multicam, XFile