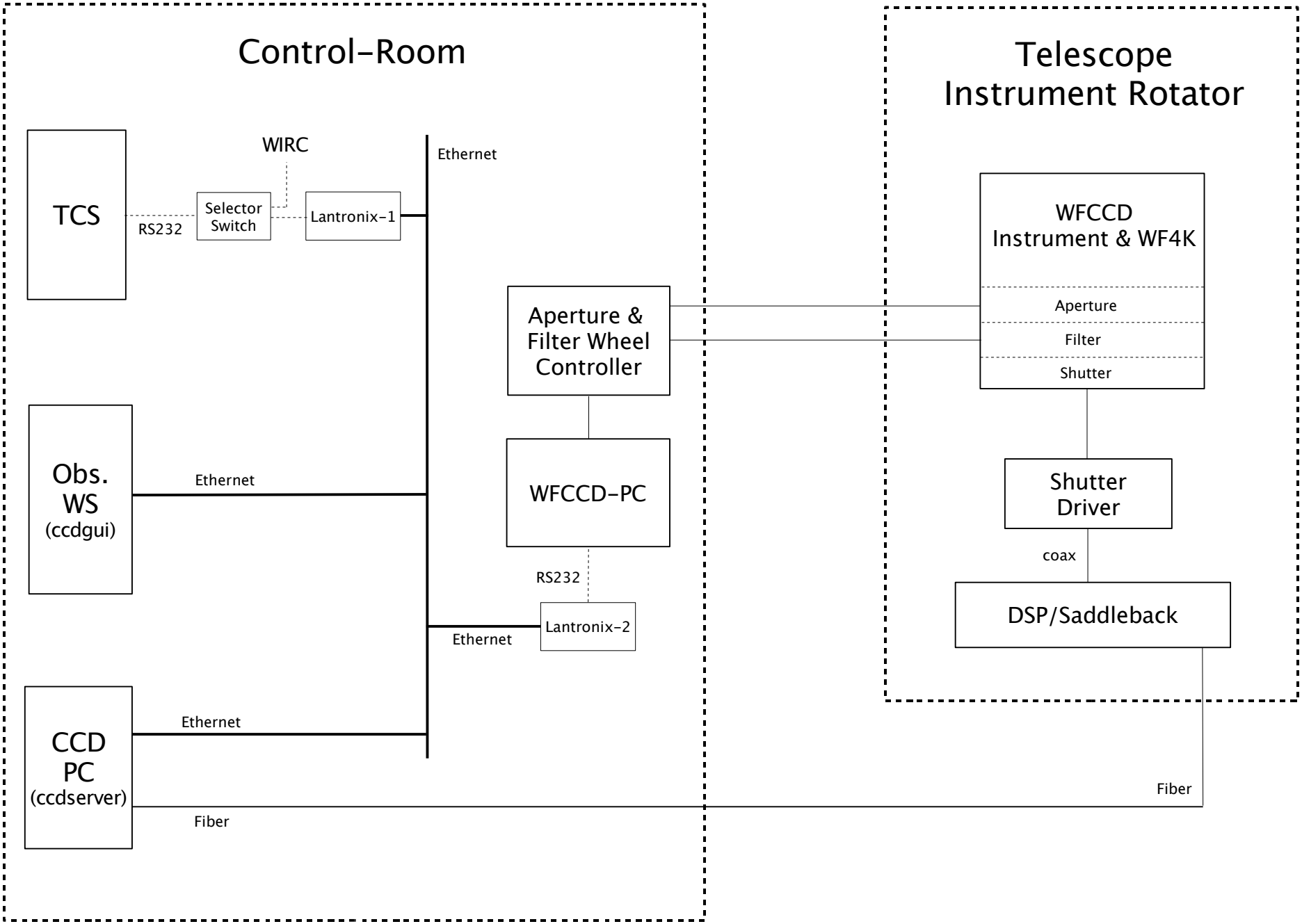
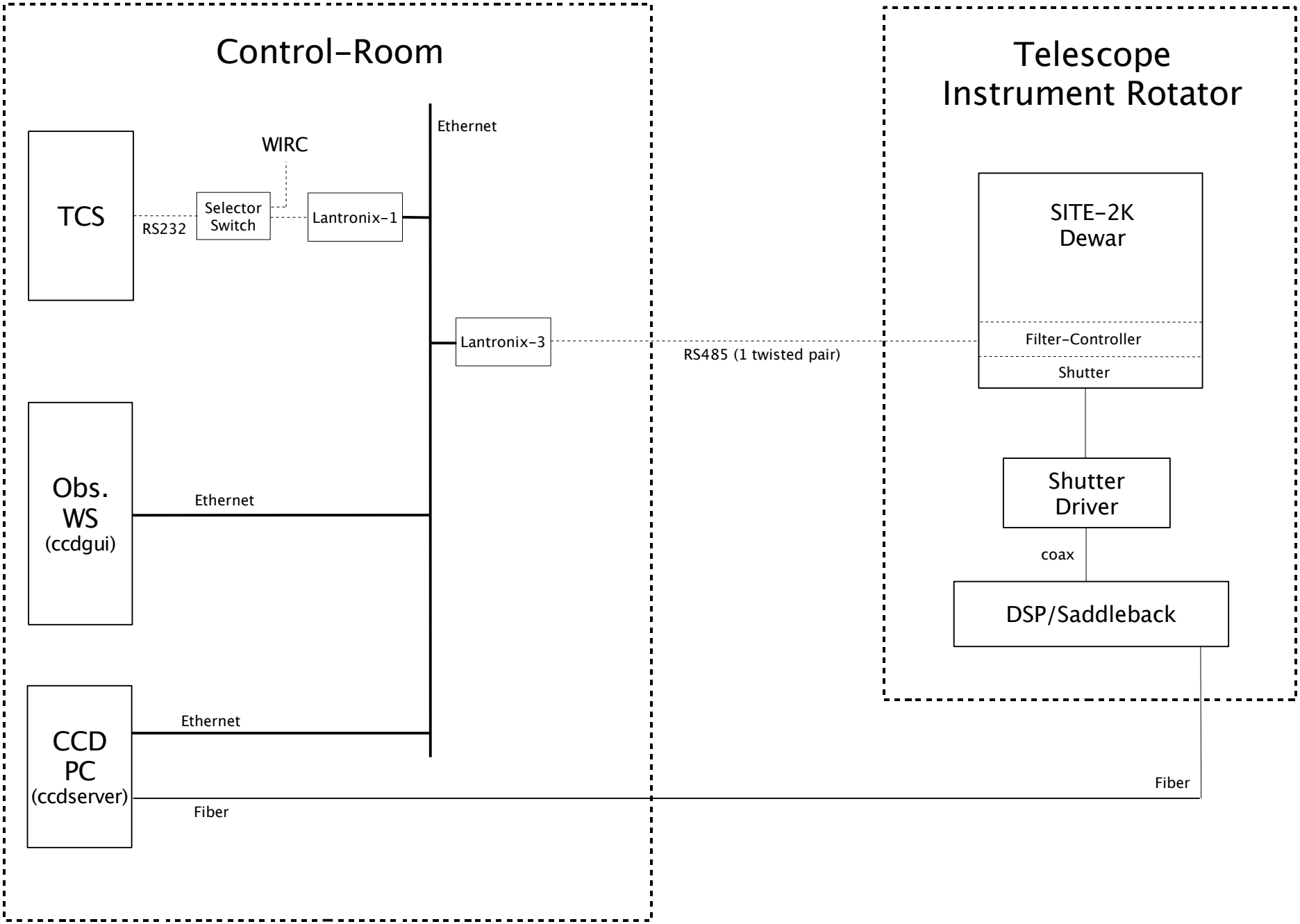
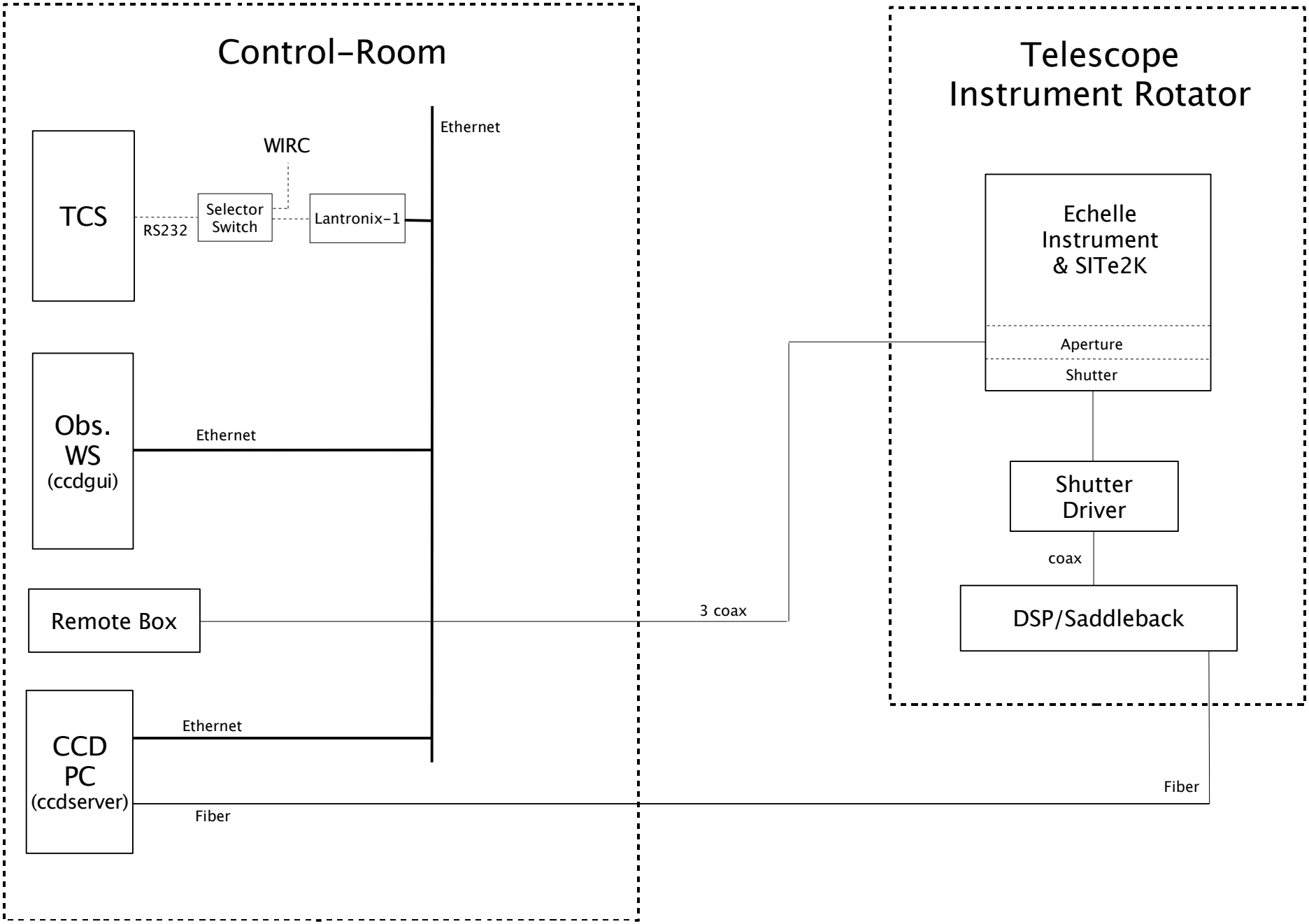
WFCCD / WF4K


Control-Room
TCS
RS232
Selector Switch
WIRC
Lantronix-1
Ethernet
Obs. WS (ccdgui)
Ethernet
CCD PC (ccdserver)
Ethernet
Fiber
Aperture & Filter Wheel Controller
WFCCD-PC
RS232
Lantronix-2
Ethernet
Telescope Instrument Rotator
WFCCD Instrument & WF4K
Aperture
Filter
Shutter
Shutter Driver
coax
DSP/Saddleback
Fiber

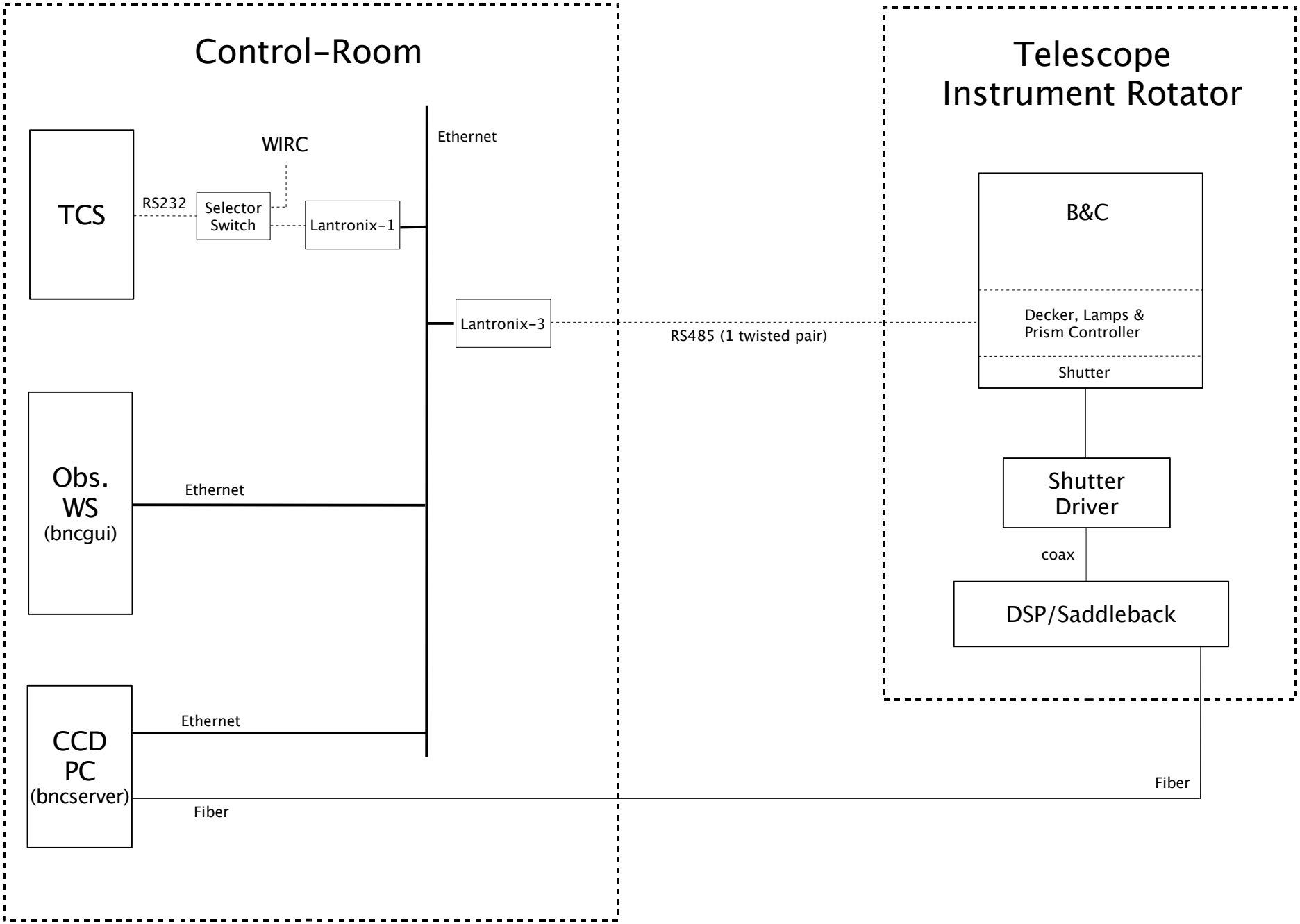
Direct CCD / SITe2K



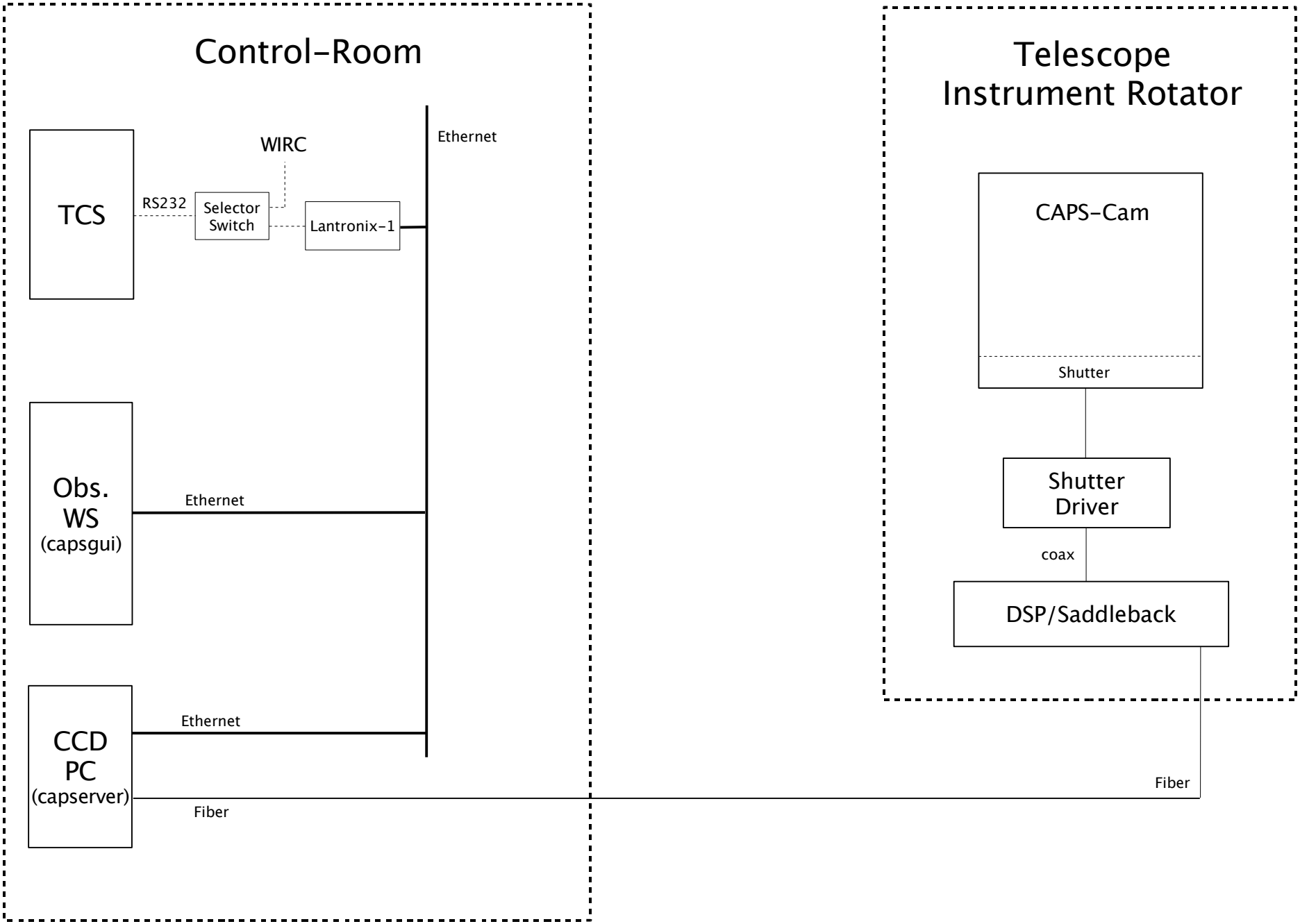
Echelle / SITe2K



B&C


Control-Room
TCS
RS232
WIRC
Selector Switch
Lantronix-1
Ethernet
Lantronix-3
RS485 (1 twisted pair)
Obs. WS (bncgui)
Ethernet
CCD PC (bncserver)
Ethernet
Fiber
Telescope Instrument Rotator
B&C
Decker, Lamps & Prism Controller
Shutter
Shutter Driver
coax
DSP/Saddleback
Fiber

CAPS-Cam


Control-Room
TCS
RS232
Selector Switch
WIRC
Lantronix-1
Ethernet
Obs. WS (capsgui)
Ethernet
CCD PC (capserver)
Ethernet
Fiber
Telescope Instrument Rotator
CAPS-Cam
Shutter
Shutter Driver
coax
DSP/Saddleback
Fiber

Lantronix Setup

Lantronix	IP-Number	Parameters	Interface	Flow-Control	Connect	Disconnect	Flush
1 dupont-tcs	139.229.101.106	RS-232, 19200-8-1-N	0x4C	None	0xC0	0x00	0x00
2 dupont-wfccd	139.229.101.107	RS-232, 9600-8-1-N	0x4C	None	0xC0	0x00	0x00
3 dupont-imb	139.229.101.108	RS-485, 19200-8-1-N	0x4F	None	0xC0	0x00	0x00

Software Changes

CCD: (WFCCD, Direct, Echelle):
* Magellan style 'ccdgui' for WFCCD/Direct/Echelle instruments running on the observer workstation
* Magellan style 'ccdserver' (SITE-2, WF4K chips) running on the CCD-PC
* TCS- communication via Lantronix (#1) TCP/IP-to-serial converter
* WFCCD-communication via Lantronix (#2) TCP/IP-to-serial converter
* Direct-Filter communication via Lantronix (#3) TCP/IP-to-serial converter

BNC:
* bncgui: TCS-communication via Lantronix (#1) TCP/IP-to-serial converter
* bncgui: to include the bnc.tcl script functions and use the Lantronix (#3) converter

CAPS:
* capsgui: TCS-communication via Lantronix (#1) TCP/IP-to-serial converter

Hardware Requirements

* 3 Lantronix (UDS-10) TCP/IP-to-serial converters (already at SBS)
* Adapter cable to TCS: DB25<->DB9 (?)
* Adapter cable to WFCCD: DB25<->DB9 (?)
* Adapter cable to Direct-Filter/BNC: DB25<->DB9 (?)