



# Work on the DCS

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STS Department Meeting, 2022.10.03

The itsOLStave control panel was **successfully** connected to the CAEN simulator.

QuickTest: TestPanel.pnl (dist\_123 - mpd-its; #1)

Module Panel Scale Help

FSM Status

Stave PU and RU CAEN Channels

	iMon [A]	vCon [V]	isOn	OvC	UnV	OvP	Trip	Unplugged	Temp Error	OverHvMax	Interlock
PU0_1	0.005	3.910									
PU0_2	0.005	4.090									
PU1_1	0.007	4.375									
PU1_2	0.000	4.075									
RU	0.003	7.460									

Stave Cooling

Stave Back Bias Voltage

iMon [A]	vCon [V]	isOn

Module Status

HIC7U	HIC6U	HIC5U	HIC4U	HIC3U	HIC2U	HIC1U
HIC7L	HIC6L	HIC5L	HIC4L	HIC3L	HIC2L	HIC1L

CAEN Simulator (dist\_123 - mpd-its; #1)

CAEN Channel Manipulator/Simulator

Logical View Filter  
L5

Show Channels

Connect Selected

Disconnect All

Connect

Trip Selected

Reset Selected

SwitchOn Selected

SwitchOff Selected

Settings

v0set 3.3 V

i0set 0.1 µA

rUp 0.5 V/s

rDown 0.3 V/s

Trip 3 s

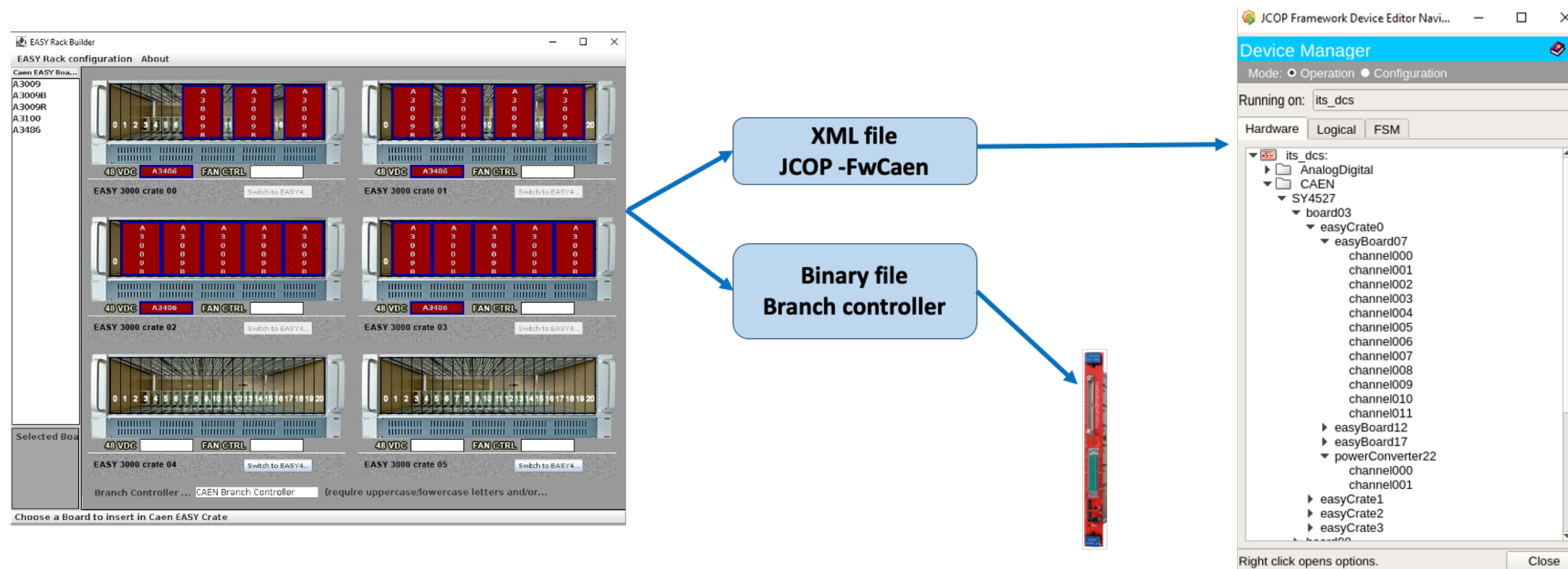
Set Selected

Alias	Channel
CAEN/L5/L5_00/PU0_1	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel000
CAEN/L5/L5_00/PU0_2	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel001
CAEN/L5/L5_00/PU1_1	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel002
CAEN/L5/L5_00/PU1_2	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel003
CAEN/L5/L5_00/RU	dist_123:CAEN/aliitscae001/branchController15/easyCrate1/easyBoard06/channel002
CAEN/L5/L5_01/PU0_1	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel004
CAEN/L5/L5_01/PU0_2	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel005
CAEN/L5/L5_01/PU1_1	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel006
CAEN/L5/L5_01/PU1_2	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel007
CAEN/L5/L5_01/RU	dist_123:CAEN/aliitscae001/branchController15/easyCrate1/easyBoard06/channel003
CAEN/L5/L5_02/PU0_1	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel008
CAEN/L5/L5_02/PU0_2	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel009
CAEN/L5/L5_02/PU1_1	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel010
CAEN/L5/L5_02/PU1_2	dist_123:CAEN/aliitscae001/branchController15/easyCrate3/easyBoard17/channel011
CAEN/L5/L5_02/RU	dist_123:CAEN/aliitscae001/branchController15/easyCrate1/easyBoard06/channel004
CAEN/L5/L5_03/PU0_1	dist_123:CAEN/aliitscae001/branchController15/easyCrate4/easyBoard09/channel008
CAEN/L5/L5_03/PU0_2	dist_123:CAEN/aliitscae001/branchController15/easyCrate4/easyBoard09/channel009
CAEN/L5/L5_03/PU1_1	dist_123:CAEN/aliitscae001/branchController15/easyCrate4/easyBoard09/channel010
CAEN/L5/L5_03/PU1_2	dist_123:CAEN/aliitscae001/branchController15/easyCrate4/easyBoard09/channel011
CAEN/L5/L5_03/RU	dist_123:CAEN/aliitscae001/branchController15/easyCrate1/easyBoard06/channel005
CAEN/L5/L5_04/PU0_1	dist_123:CAEN/aliitscae001/branchController15/easyCrate4/easyBoard13/channel000

Some parts of the control panel connects to DPs that belongs to a system that we miss.

- **Next:** To get some knowledge about FSM.

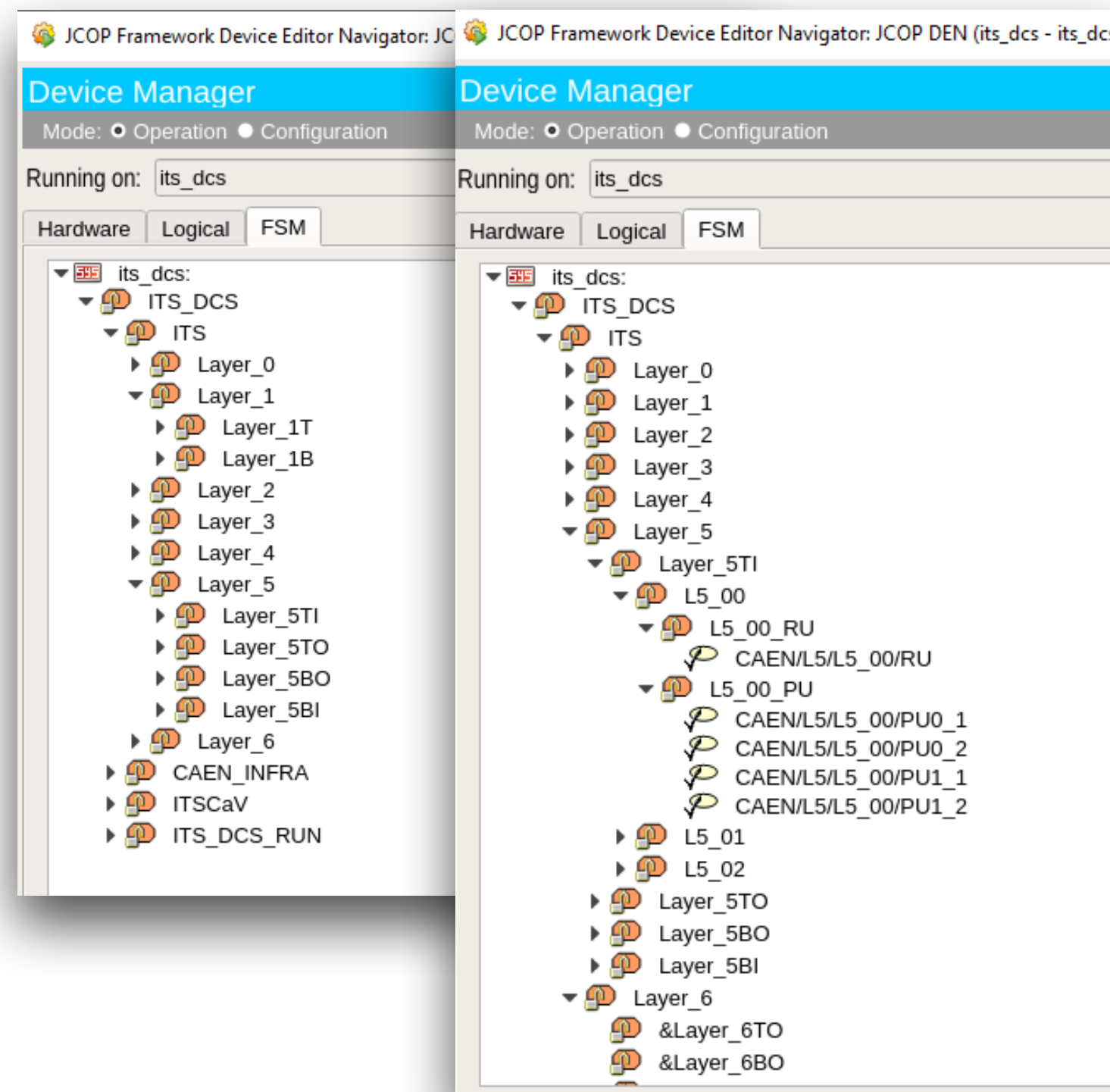
Check input / output signals through WinCC OA OPC UA client from JCOP objects to the EASY boards – **partially done**.



- The basic communication with the Easy creates connected to the branch controllers was **successfully tested**.
- **Next:** To work on a set of tests for better checking the channels correct behaviour (may be with some guidance from CAEN).



There is a better understanding of the FSM structure and partially reproduced the IB structure for the OB.



Relevant control panels are missed and FwCAENControl will be tried instead.

**Main obstacle:** Lacking on expertise and on consultations from ALICE-ITS. We are reaching the point of "what to do next?"

