

# Production Status

RIKEN/RBRC

Itaru Nakagawa

# 25cm Conversion Cable Status

New Order Plan	AC-Type	BD-Type
25cm $\mu$ -Coax Harness	75 bundles (1.5 CC/ROC)	75 bundles (1.5 CC/ROC)
GND/Power Cables	100 cables (1.5 CC/ROC)	100 cables (1.5 CC/ROC)

- Received the quote from Hayashi-REPIC company.
- PO to be issued from RIKEN soon.
- The lead time is at least 2 months due to the Chinese New Year break.
- Most likely, the expected delivery in March 2023.
- I try to push to get them available for the mid March INTT installation.

# TLK2711 and ROC



# TLK2711 Purchase Order Status

PO Date	Quantity	Status	Action
2022/11/24	20	Delivered	Repair work in Japan in progress
2022/12/7	30	Delivered to BNL on Jan. 4 <sup>th</sup>	SC replacement work at BNL
2022/12/21	55	Expected delivery soon	Possible TLK replacement for fake hits?
?	145	Still searching	

Not available in major vendors for sure. We are searching for minor parts vendors to check their stock room to see if there are any stocks not listed in the database. It is getting realistic that there were only 100 stocks in the market and we already bought them out.

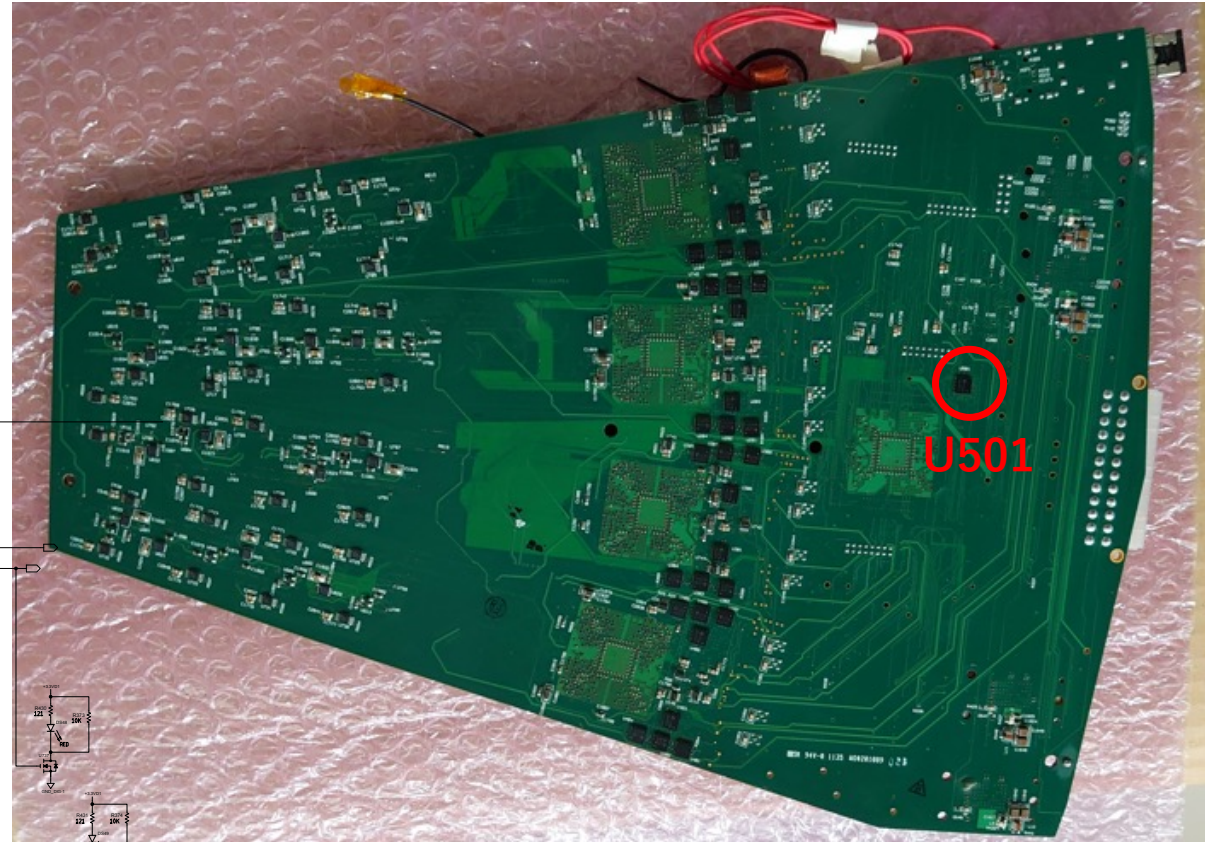
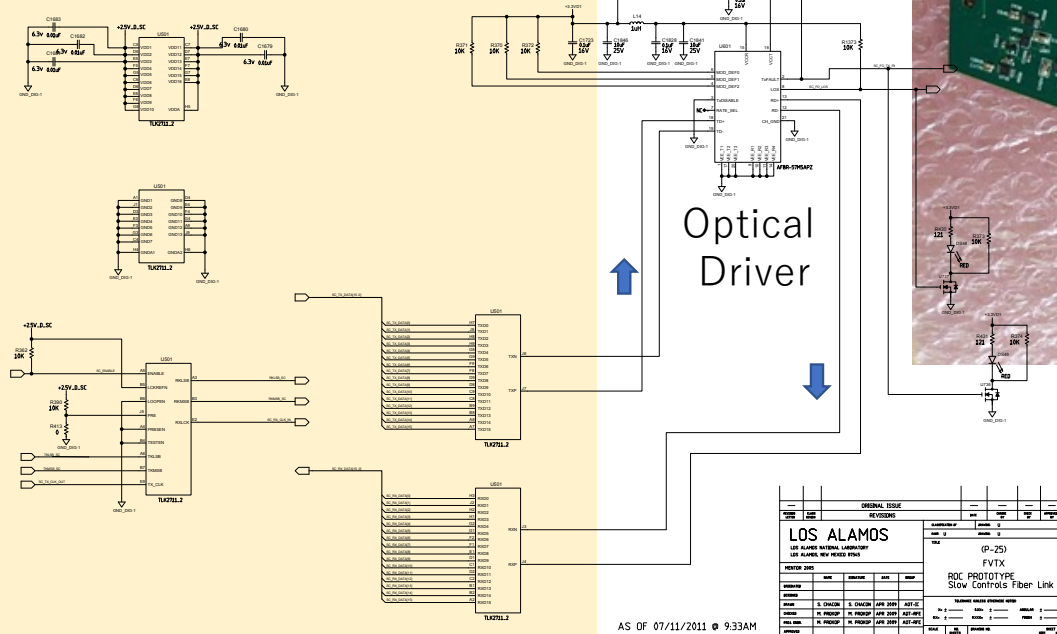
➡ Need to start thinking about plan-B...



Delivered to BNL on Jan 3rd

# Slow Control TLK2711 (U501)

## Slow Control TLK2711 (U501)



# ROC Repair Status

[https://docs.google.com/spreadsheets/d/11jsgrsI7pS02la\\_Huew4Fw-nbNwOzl6Vhbl0nRYUX-w/edit#gid=1083896993](https://docs.google.com/spreadsheets/d/11jsgrsI7pS02la_Huew4Fw-nbNwOzl6Vhbl0nRYUX-w/edit#gid=1083896993)

Index	ROC #	FVTX	Regulator Upgrade	Location	Class	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3	Issue	Status
1	6	NW2	✓	BNL	1														
2	13	NE4	✓	BNL	1														
3	18	NE1	✓	BNL	1														
4	26	SE3	✓	BNL	1														
5	28	SE0	✓	BNL	1														
6	29	-	✓	BNL	1														
7	20	SW5	✓	BNL	1														
8	22	SE2	✓	RPC	2														
9	23	SE1	✓	BNL	1														
10	31	NW1	✓	BNL	1	R	R	R											
11	32	NE2	✓	BNL	1							R	R	R					
12	9	-	✓	BNL	1			R											To be shipped to RIKEN
13	10	-	✓	BNL	1					R		R							L12 Replaced at Column-D
14	27	SE5	✓	BNL	1							R			R	R	R		Fixed by TLK2711 Replacement
15	19	NE5	✓	BNL	1										R				
16	24	SE4	✓	RPC	2													Fiber Sync	A3,D1 TLKs replaced
17	16	NE3	✓	BNL	3													Calib Pulse	Waiting for SC-FPGA download
18	15	NE0	✓	NWU	2	R												Fiber Sync	
19	7	-	✓	NWU	3		R	R											Replaced all DF18
20	2	NW4	✓	RPC	2													Fiber Sync	
21	21	-	✓	RPC	2	R												Fiber Sync	
22	17	NW3	✓	RPC	2													Fiber Sync	
23	3	NW5	✓	RPC	2	R		R										Fiber Sync	
24	14	NE1	✓	RPC	3														
25	5	-	-	RKN	3														

Calib multiplexer

Good  
 Good, but occasional failure  
 No data at all  
 C : Problem in Calibration pulse  
 O : Problem in Optical link  
 P : Problem in Power supply  
 H : Half Entry  
 R : Recovered

Under Repair (TLK replacement except for B1 port of NW4)



Leadtime : 2~3 weeks  
Expected delivery next week at the earliest.



Delivered ROCs are to be tested in RIKEN immediately.



To be shipped to BNL new class-1 ROCs by the end of January

The ROC database updated by K. Fujiki



# ROC Repair Status

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12	9	-	✓	BNL	1			R											
13	10	-	✓	BNL	1					R		R							
14	27	SE5	✓	BNL	1							R			R	R	R		L12 Replaced at Column-D
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20	2	NW4	✓	RPC	2				O	R		R			O	R		Fiber Sync	
21	21	-	✓	RPC	2	R			R		R		R	O	R			Fiber Sync	
22	17	NW3	✓	RPC	2				O							R		Fiber Sync	
23	3	NW5	✓	RPC	2	R		R							H	R	O	Fiber Sync	
24	14	NE1	✓	RPC	3					R		H	R	R					
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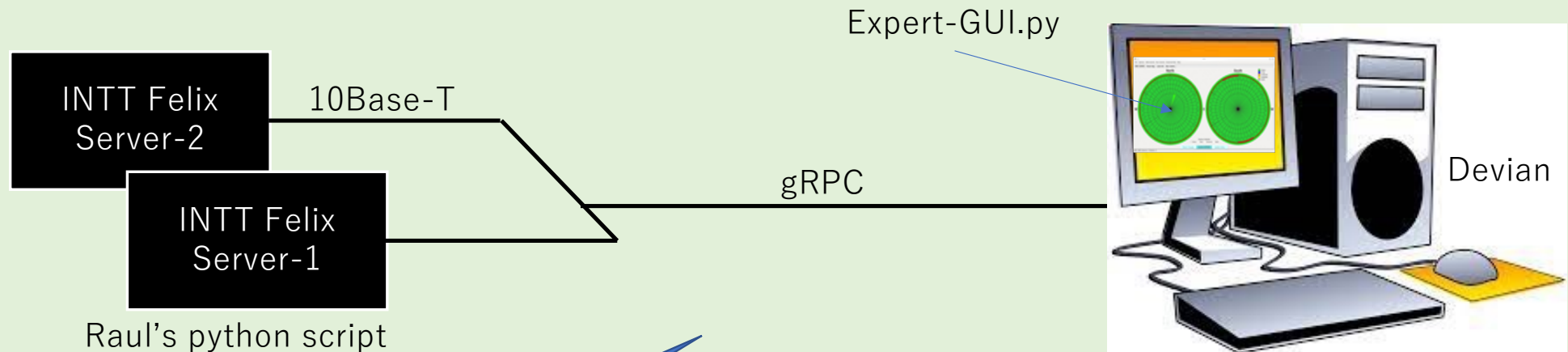
■ Good  
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TLK replacement for fake hit study if fake hits disappears after the replacement. (To be reported by R. Shishikura)

# 1008 Environment for Expert GUI



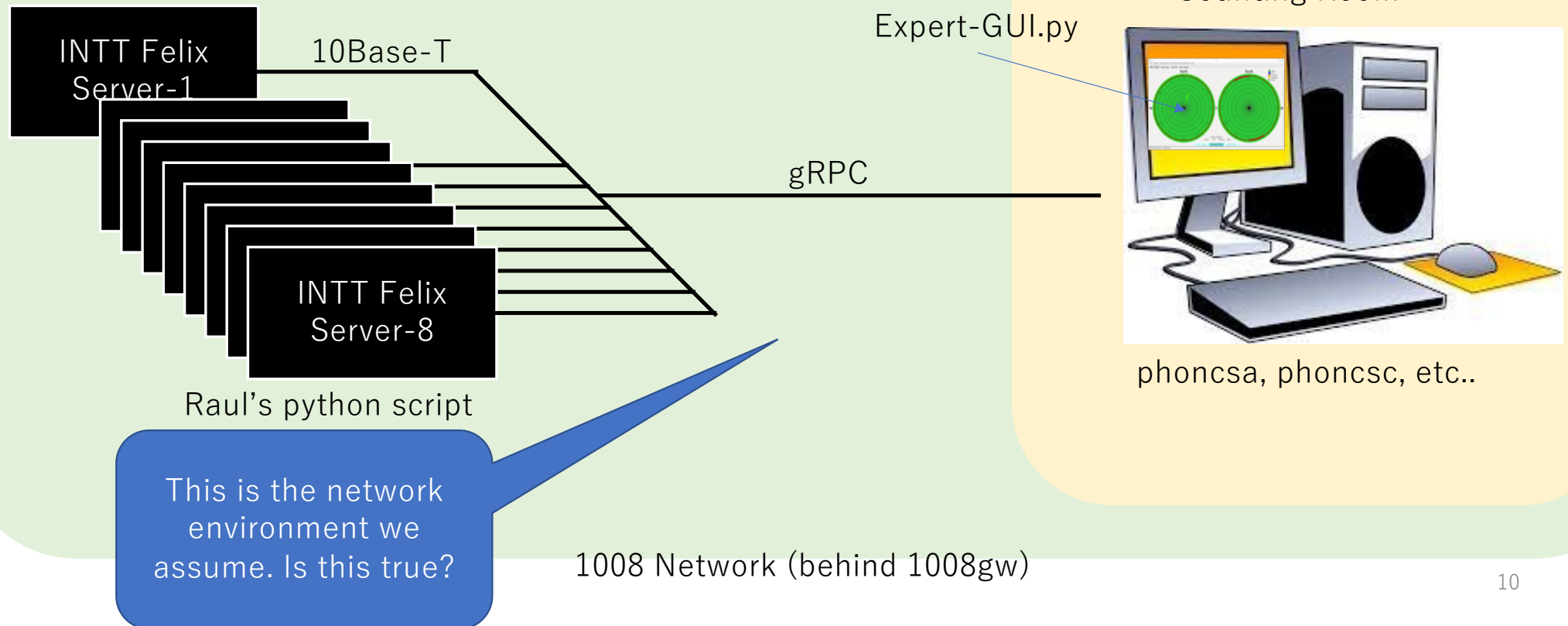
# Expert GUI Development in Silicon Lab

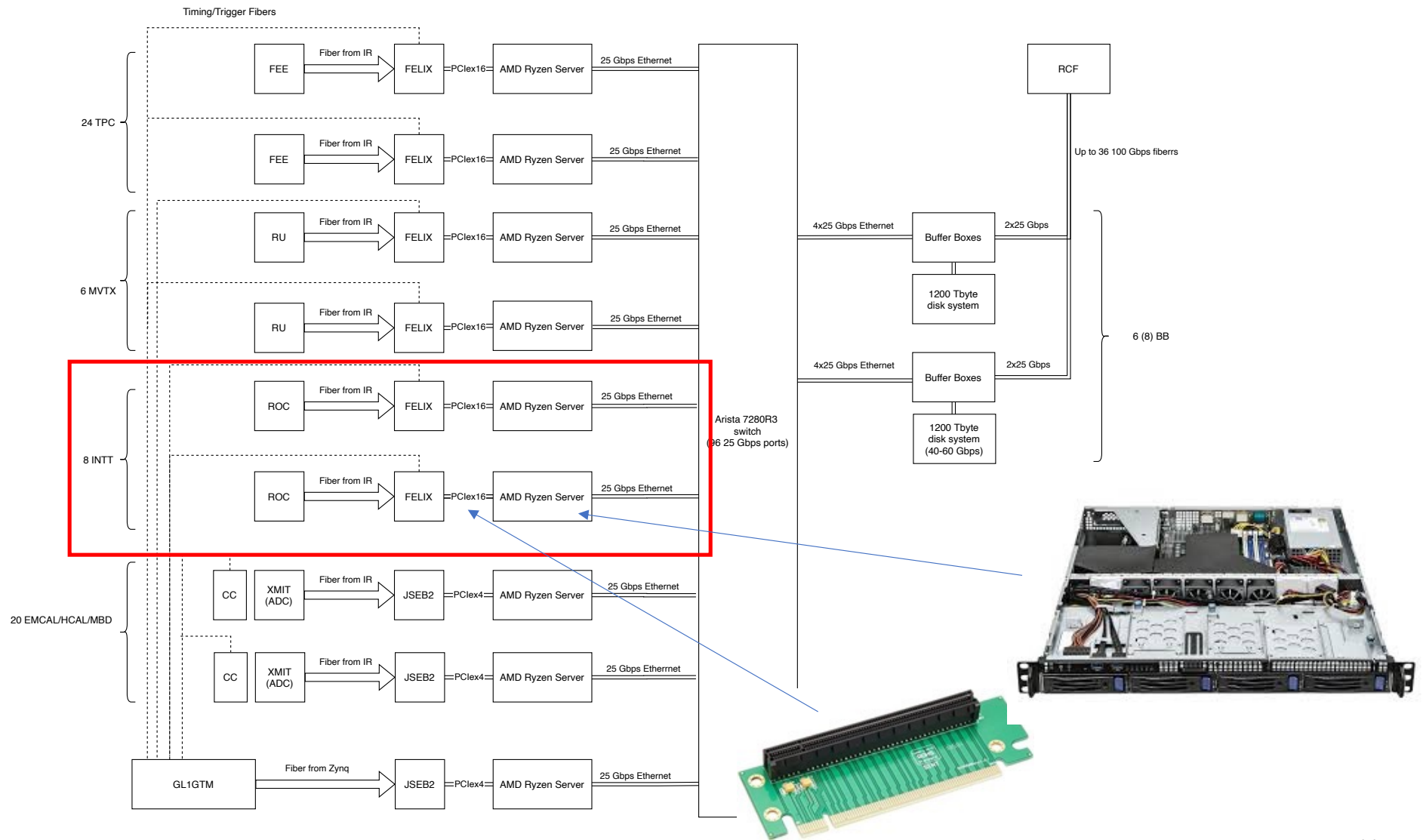


We are developing expert GUI in this environment assuming this framework works in 1008. Is this true?

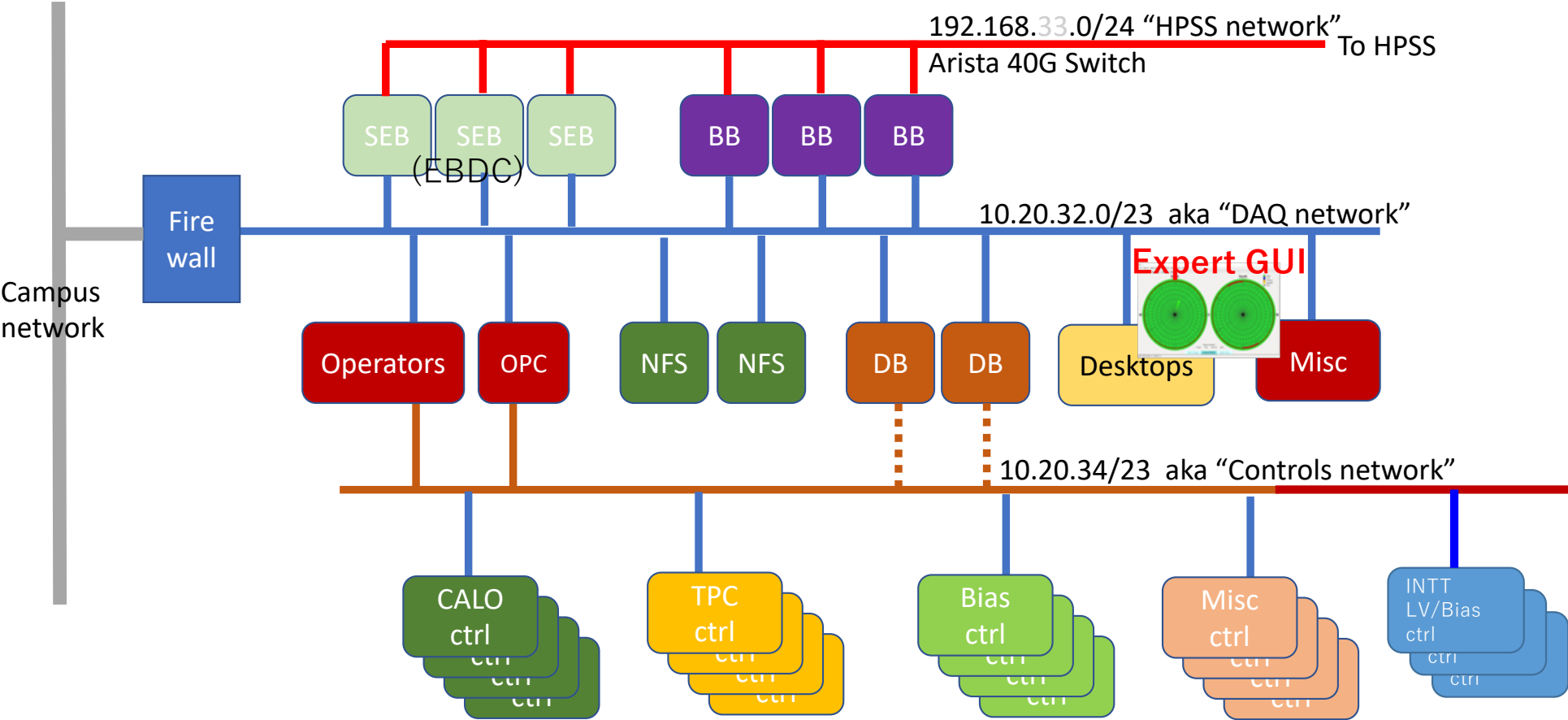
Silicon Lab Network (behind silicon.gw)

# Expert GUI Design in 1008





# 1008 network topology



# Martin's Response

On 2022/12/23 1:21, Martin Purschke wrote:

Hi Itaru,

yes, that's ok.

I need to make sure, though, that everyone understands that all this is an expert GUI and expert operation. For the shift crews in the end I need a script like "bring\_up\_the\_INTT\_to\_running\_state.sh" (it will have a different name :-)).

Remember, we had something similar in PHENIX (that was for the slow controls) where there had to be a command in the PATH hvcontrol\_DETECTORNAME, such as hvcontrol\_FVTX for the FVTX. Those would need to understand a common set of basic commands, we had things like "hvcontrol\_FVTX on", "hvcontrol\_FVTX standby", "hvcontrol\_FVTX status", and the like.

Then the shift crew could go through all systems PBSC, PGBL, RICH, PADC, FVTX etc and execute "hvcontrol\_XXXX on" for all, and each subsystem was free to do whatever it took for that particular system and still stand up a common "API".

We are not there yet to hash this out in much more detail, but you understand the approach.

Best,  
Martin