

Problematic Electronics Towers - Barrel

Item	SM	FED	Tower	DAQ Problem	Date	Hardware problem	What to do	Data Fatal	Trigger Fatal	OK since
1	EB-1	610	12	Link errors	20090403	GOL status1 0x1 after ~1 hour after power up	Change GOH and FE card	YES	NO	<20161101
2	EB-1	610	39	Rare header errors	20160426	Signal a bit noisy	Change DCC? DCC #33 Swapped with EB+8	NO	NO	20220822
3	EB-2	611	13	Link errors	20080115	QPLL low frequency	Change FE card	YES	YES	Disabled
4	EB-3	612	61	Failing at high rate	20080612	Rare data corruption in FENIX	Change FE card	NO	NO	
5	EB-3	612	7	Link errors after ~500 evts	20080909	Data GOH in error state	Change GOH and FE card	YES	NO	Disabled
6	EB-4	613	1	Link errors	20100810	Bad quality of optical signal, noisy	Change GOH	YES	NO	Disabled
7	EB-6	615	17	Failing at high rate	20100401	QPLL not locked after Pwup	Turn off/on LV	NO	NO	20140717
8	EB-6	615	37	Timeouts	20161019	Signal excellent	Change DCC ?	YES	NO	20170827
9	EB-7	616	42	H-parity	20090325	V-parity absent, data good	Ignore "Error"	NO	NO	
10	EB-9	618	22	Rare link errors, horizontal parity.	20090408	No I2c access to GOL sometimes. QPLL not locked after Power up. Bit 7 (0x80) is stucked at zero ~5%.	Change GOH and FE card. Turn off/on LV	NO	NO	Disabled
11	EB-9	618	34	Link errors	20150913	No I2c access to GOL sometimes	Change GOH and FE card	NO	NO	<20161101
12	EB-9	618	55	Bad data	20180702	LVRB problem. 4.3A is 0.7V Analog voltages 0.5V	Change LVRB	YES	YES	Disabled
13	EB-10	619	67	Requested by Jose	20080913	GOH status1 0x81	Change GOH	YES	NO	Disabled

EcalTTcurrentStatus < Main < TWiki

Item	SM	FED	Tower	DAQ Problem	Date	Hardware problem	What to do	Data Fatal	Trigger Fatal	OK since
14	EB-12	621	5	Header errors	20080822	FENIX Pwup reset?	Change FE card	YES	NO	Disabled
15	EB-13	622	21	Rare link errors	20220623	Signal is not investigated	Change DCC #22, failed in EB-14. Changed.	NO	NO	20221012
16	EB-13	622	33	Link errors	20110224	GOH status1 0x1 or 0x55 sometimes	Change GOH and FE card	YES	NO	
17	EB-13	622	52	H-parity	20160721	Strip4 bit12 slow raising	Implement recovery software	NO	NO	
18	EB-14	623	39	Link errors	20091122	GOH status1 0x1 or 0x41 sometimes, but can be good many months	Change GOH and FE card	YES	NO	
19	EB-15	624	70	Link errors	20090701	Signal good	Change GOH and FE card	YES	Mem	
20	EB-16	625	53	Failing at high rate	20080612	No light in data link. Fiber OK	Change GOH	YES	NO	Disabled
21	EB-17	626	34	Bad data size	20100501	Strip 4 sends zero lenght data	Improve DCC firmware	NO	NO	Disabled
22	EB-17	626	66	Failing at high rate	20081001	QPLL not locked after Pwup	Turn off/on LV	NO	NO	
23	EB-18	627	27	No signal	20230901	The tower inhibited at Magnet ON	Repair Inhibit line	YES	YES	
24	EB+3	630	21	Timeouts	20150615	Signal is good...	Clear DCC input? Done. Try another DCC	NO	NO	20170827
25	EB+3	630	47	Requested by Jose	20081007	Fiber broken in 2m from GOH	Repare fiber/connector	YES	NO	
26	EB+6	633	6	Bx and hor parity	20080320	Bit 3 (0x8) always OFF	Investigate offline recovery	NO	NO	Disabled
27	EB+6	633	14	Failing at high rate	20100401	QPLL not locked after Pwup	Turn off/on LV	NO	NO	<20161101
28	EB+6	633	22	Link Errors	20201007	Signal is excellent	Change DCC. This is #52, failed in EE+9	NO	NO	
29	EB+6	633	43	H-parity	20090325	V-parity absent, data good	Ignore "Error"	NO	NO	
30	EB+7	634	11	Timeouts	20170401			NO	NO	20170811

Item	SM	FED	Tower	DAQ Problem	Date	Hardware problem	What to do	Data Fatal	Trigger Fatal	OK since
						Signal is good...	Clear DCC input? Done. Try another DCC			
31	EB+8	635	12	Timeouts	20170401	Signal is good...	Change DCC? DCC#13 swapped with EB-1 . Much better	NO	NO	20220822
32	EB+9	636	42	No CCS control because bypassed	20091020	Clock A line between TT50 and TT42 broken	Software "double bypassing"	NO	NO	
33	EB+9	636	67	Header errors (hor parity)	20080314	Bit 10 (0X400) always ON	Investigate offline recovery	NO	NO	Disabled
34	EB+10	637	30	Block size errors	20080723	Noisy data link	Try to change bias	YES	NO	20170425
35	EB+10	637	50	Data link errors	20091114	GOH status1 0x01	Chanhe GOH	YES	NO	
36	EB+11	638	10	Link errors	20211017	Signal is excellent	Change DCC? Deeply cleaned. OK.	NO	NO	20220607
37	EB+12	639	68	Link errors	20091002	No I2C access to GOLs. LVR output =1.5V for VFEs1,2,3	Change electronics in tower	YES	YES	
38	EB+16	643	30	Failing at high rate	20080120 - 20090503	QPLL not locked after Pwup	Turn off/on LV	NO	NO	<20161101
39	EB+16	643	51	Crazy data and trigger	20240219	CCU not reachable	Change FE card	YES	YES	Bypassed
40	EB+18	645	60	Failing at high rate	20081001	QPLL not locked after Pwup	Turn off/on LV. Does not work at magnet ON	NO	NO	Disabled
41	EB+18	645	65	Many errors	20080908	Data GOH in error state	Change GOH and FE card	YES	NO	Disabled

Problematic Electronics Towers FE - Endcap

Item	EE sector	FED	FE-CCU	DAQ Problem	Date	Trigger Link	Hardware problem	What to do	Data Fatal	Trigger Fatal	OK since
1	EE-2	605	21	Rare link errors	20221026		DCC #22 problem, failed in EB-13, EB-14, see table above	Change DCC	NO	NO	
2	EE-4	607	6	Link errors	20120306				YES	NO	Disabled

Item	EE sector	FED	FE-CCU	DAQ Problem	Date	Trigger Link	Hardware problem	What to do	Data Fatal	Trigger Fatal	OK since
							Jumping Bias	Change GOH			
3	EE-5	608	32	LV off	20080901		LV inhibited (ALV=2V)	Repare Analog LV contact	YES	YES	Disabled
4	EE-7	601	32	L1 & BX desync	20100210		FENIX L1/Bx pointer fails for 64	Ignore L1/BX information	NO	NO	
5	EE-8	602	6	Link errors	20120112		QPLL unlocked	Wait magnet ON?	YES	YES	Disabled
6	EE-8	602	21	Data shifted by 1 word	20120801		FE or DCC ?	Change DCC?	NO	NO	<20120413
7	EE-9	603	16	Link errors sometimes	20110411		Floating Bias	Change GOH	NO	NO	<20121023
8	EE+1	649	30	Link errors	20210302		GOH status 1 0x1 sometimes	Change GOH and FE card	YES	NO	Auto masking
9	EE+3	651	20	Link errors	20160216		GOH status 1 0x1	Change GOH and FE card	YES	NO	20160915
10	EE+4	652	23	Bypassed	20150511		Digital LV is absent?	Wait magnet ON? Inhibited	YES	YES	Disabled
11	EE+4	652	28	Can not start	20220410		CCU25 has died? Not. Sometimes works.	Software reset?	NO	NO	
12	EE+5	653	10	Link errors	20221012		DCC52 ch 10 problem, see EE+9	Power cycle VME crate	NO	NO	
13	EE+6	654	12	Broken Data Link	20080901				YES	NO	Disabled
14	EE+9	648	10	Link errors	20211025		Signal is excellent	Change DCC? Done.	NO	NO	20220816
15	EE+9	648	22	Link errors	20201007		Signal is excellent	Change DCC? Done.	NO	NO	20220816

Problematic VFE

Item	EB	FED	TT, VFE	DAQ Problem	Date	Hardware problem	What to do	Data Fatal	Trigger Fatal
1	EB-1	610	TT61 VFE 1	analog LV low	20080901	Analog VFE1A25 = 1.81		Maybe	MAYBE
2	EB-11	620	TT60, VFE 1, 2, 3	digital LV low	20080901	Digital VFE1to3 = 1.53		YES	YES

Item	EB	FED	TT, VFE	DAQ Problem	Date	Hardware problem	What to do	Data Fatal	Trigger Fatal
3	EB+2	629	TT42, VFE 5	integrity errors	20160916	No access to FENIX		YES	YES
4	EB+12	639	TT68, VFE 1, 2, 3	digital LV low	20120424	Digital VFE1to3 =1.50		YES	YES

Problematic Trigger Links

Item	SM	FED	CCU	Link	TCC	TCC Ch	DAQ Problem	Date	Hardware problem	What to do
1	EB-10	619	43	1			Link errors	20090310	GOL status1 0x3	Change GOH and FE card
2	EB-11	620	60	1			Link errors	20110921	GOL status1 0x3	Change GOH and FE card
3	EB-13	622	3	1			Link errors	20141110	GOL status1 0x3	Change GOH and FE card
4	EB-13	622	29	1			Hamming errors	20111118	Signal is too high	Try to use attenuator
5	EB-13	622	38	1			Link errors	20130318	GOL status1 0x3	Change GOH and FE card
6	EB-16	625	15	1			Link errors	20160711	GOL not accessible	Change GOH and FE card
7	EB+3	630	32	1			Link errors	20230901	TCC68 s/n 15 problem	Change TCC
8	EB+3	630	33	1			Link errors	20230901	TCC68 s/n 15 problem	Change TCC
9	EB+7	634	47	1			Link errors	20140308	GOL status1 0x3/01 sometimes	Change GOH and FE card
10	EB+10	637	34	1			Link errors	20140828	GOL status1 0x3/01 sometimes	Change GOH and FE card
11	EB+13	640	21	1			Link errors	20090310	GOL status1 0x3	Change GOH and FE card
12	EB+15	642	8	1			Link errors	20110218	GOL status1 0x3	Change GOH and FE card
13	EB+18	645	16	1			Link errors	20090310	GOL status1 0x3/57	Change GOH and FE card
14	EE-4	607	4	3	13	25	Link errors	20101008	No contact in mu	Recover optical contact
15	EE-7	601	11	4	1	37	Link errors	20170300	Signal on-off-on	Change GOH and FE card
16	EE+1	649	8	4	96	15	Bit 6 flicky	20110208	Problem inside GOL	Change GOH
17	EE+1	649	16	2	97	36	Link errors	20110130	GOL status 0x1/3	Change GOH and FE card
18	EE+2	650	4	3	80	23	Link errors	20120230	Signal unstable, PLL loosing sync	Change GOH and FE card
19	EE+2	650	28	3	99	27	Link errors	20210521	Signal 3mW, reflection at 81m	Try to clear connector at patch panel
20	EE+3	651	12	1	100	28	Link errors	20110130	GOL status 0x1/3	Change GOH and FE card

Item	SM	FED	CCU	Link	TCC	TCC Ch	DAQ Problem	Date	Hardware problem	What to do
21	EE+5	653	7	3	105	32	Link errors	20120512	Signal on-off-on	Change GOH and FE card
22	EE+6	654	30	5	88	25	Link errors	20100928	GOL status 0x1 /3	Change GOH and FE card
23	EE+9	648	8	3	95	5	Link errors	20170300	No signal	Change GOH, FE card, fibre(?)
24	EE+9	648	9	1	95	21	Link errors	20210419	No signal	Change GOH, FE card, fibre(?)

Trigger Tower Block SIZE during High Rate tests with minidaq

Item	SM	FED	Tower	DAQ Problem	Date	Details	
1	EB-12	612	63	Block Size Errors during High Rate	20090315	GOL status1 0x3	new?
1	EB-12	612	61	Block Size Errors during High Rate	20090317	GOL status1 0x3	- no erros during all 20090316

Jose

Trigger Towers removed from the problematic list

Item	SM	FED	Tower	DAQ Problem	Date	Hardware problem	What to do	Data Fatal	Trigger Fatal	
11	EB+15	642	8	Present in laser, absent in cosmic	20080612 - 20090503		Masked at reco level. Unmask?	NO	NO	
10	EB+6	633	6	Bx and hor parity	20080320	Data GOH in error state. Bit 3 (0x4) always OFF	Change GOH and FE card	YES	NO	
13	EB+16	643	18	Link errors	20090605	No any light in the link	OTDR measurements. Cleaned. OK.	NO	NO	
2	EE+9	648	25/25	HV intermittent	20081007			YES	YES	
3	EE+9	648	29/32	HV off, inverted or low amplitude pulses	20081007			YES	YES	
5	EE+6	654	14/112c	HV off, Anode off? Inverted pulse	20081007			YES	YES	
#14	EE+6	654	14	LV inhibited	20091101		Bad LV contact. Repaired		YES	YES
#15	EE+6	654	19	LV inhibited	20091101		Bad LV contact. Repaired		YES	YES
#16	EE+6	654	20	LV inhibited	20100420		Bad LV contact. Repaired		YES	YES

Overview

Name	Short	Crate	FED	FEDs	Con	Geo	Partition
EE-							
vmepcS2F19-01	ecalod-01	ecalod-S2D04l	ecal fed-601	609 601 602	D3 D3 D3	-06 -07* -08*	ecalod-EE m1
vmepcS2F19-02	ecalod-02	ecalod-S2D03l	ecal fed-603	603 604 605	D3 D4 D4	-09 -01 -02*	ecalod-EE m2
vmepcS2F19-03	ecalod-03	ecalod-S2D08l	ecal fed-606	606 607 608	D4 D4 D4/3	-03* -04 -05	ecalod-EE m3
EB-							
vmepcS2F19-04	ecalod-04	ecalod-S2D04d	ecal fed-610	610 611 612	24 22 13	-01 -02 -03	ecalod-EB m1
vmepcS2F19-05	ecalod-05	ecalod-S2D02d	ecal fed-613	613 614 615	31 26 16	-04 -05 -06	ecalod-EB m2
vmepcS2F19-06	ecalod-06	ecalod-S2D03d	ecal fed-616	616 617 618	02 11 05	-07 -08 -09	ecalod-EB m3
vmepcS2F19-07	ecalod-07	ecalod-S2D07d	ecal fed-619	619 620 621	00 29 28	-10 -11 -12	ecalod-EB m4
vmepcS2F19-08	ecalod-08	ecalod-S2D08d	ecal fed-622	622 623 624	14 33 32	-13 -14 -15	ecalod-EB m5
vmepcS2F19-09	ecalod-09	ecalod-S2D06d	ecal fed-625	625 626 627	03 07 19	-16 -17 -18	ecalod-EB m6
EB+							
vmepcS2F19-10	ecalod-10	ecalod-S2D04h	ecal fed-628	628 629 630	12 17 10	+01 +02 +03	ecalod-EB p1
vmepcS2F19-11	ecalod-11	ecalod-S2D02h	ecal fed-631	631 632 633	01 08 04	+04 +05 +06	ecalod-EB p2
vmepcS2F19-12	ecalod-12	ecalod-S2D03h	ecal fed-634	634 635 636	27 20 23	+07 +08 +09	ecalod-EB p3
vmepcS2F19-13	ecalod-13	ecalod-S2D07h	ecal fed-637	637 638 639	25 06 34	+10 +11 +12	ecalod-EB p4
vmepcS2F19-14	ecalod-14	ecalod-S2D08h	ecal fed-640	640 641 642	35 15 18	+13 +14 +15	ecalod-EB p5
vmepcS2F19-15	ecalod-15	ecalod-S2D06h	ecal fed-643	643 644 645	30 21 09	+16 +17 +18	ecalod-EB p6
EE+							

EcalTTcurrentStatus < Main < TWiki

Name	Short	Crate	FED	FEDs	Con	Geo	Partition
vmepcS2F19-16	ecalod-16	ecalod-S2D061	ecalfed-646	654 646 647	D2 D2 D2	+06 +07* +08*	ecalod-EEp1
vmepcS2F19-17	ecalod-17	ecalod-S2D021	ecalfed-648	648 649 650	D2 D1 D1	+09 +01 +02*	ecalod-EEp2
vmepcS2F19-18	ecalod-18	ecalod-S2D071	ecalfed-651	651 652 653	D1 D1 D1/2	+03* +04 +05	ecalod-EEp3
SRP and Test							
vmepcS2F19-19	ecalod-19	ecalod-S2D05h	ecalfed-661	661 662 663 664			ecalod-srp
vmepcS2F19-20	ecalod-20	ecalod-S2D05e					ecalod-test a ecalod-TTCf
2U Units							
vmepcS2F19-21	ecalod-21						ecalod-spare
vmepcS2F19-22	ecalod-22						ecalod-daq01
vmepcS2F19-23	ecalod-23						ecalod-daq02 ecalod-evb01
vmepcS2F19-24	ecalod-24						ecalod-daq03 ecalod-evb02
vmepcS2F19-25	ecalod-25						
TTC							
vmepcS2B16-04	ecalod-26						ecalod-ttc als ttc-ecal
RCMS							
srv-c2d06-06	ecalod-27						ecalod-rc cmsrc-ecal
Laser							
ecal-laser-room-01	ecalod-28						
ecal-laser-room-02	ecalod-29						ecalod-laser
ecal-laser-room-03							
ecal-laser-room-04		- 1xHDD 150GB for OS - ((5-1)HDD x 150GB) RAID5 for /localdata					ecalod-laser
ecal-laser-room-07							
ecal-laser-room-08							
ecal-laser-room-09							
Dual quad cores							
srv-s2f19-26	ecalod-30						ecalod-dqm01

Name	Short	Crate	FED	FEDs	Con	Geo	Partition
srv-s2f19-27 🟢	ecalod-31						ecalod-dqm02
srv-s2f19-28 🟢	ecalod-32						ecalod-xmas
LED							
vmepcs2f18-25 🟢	ecalod-33						ecalod-led-c cmseeled
Storage Unit							
srv-s2f19-29 🟢	ecalod-34						ecalod-disk0 ecalod-web01

-- EvgueniVlassov - 16 Nov 2008

This topic: Main > EcalTTcurrentStatus
Topic revision: r101 - 2024-02-29 - EvgueniVlassov



Copyright &© 2008-2024 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.
or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback