[ADESCOM-272] wiped bias current config memory in MPIFR PAF Created: 05/May/17 Updated: 11/May/1				
Status:	Closed			
Project:	ADE-SCOM			
Component/s:	None			
Affects Version/s:	None			
Fix Version/s:	None			

Туре:	Bug	Priority:
Reporter:	Chippendale, Aaron (CASS, Marsfield)	Assignee:
Resolution:	Complete	Votes:
Labels:	PAFonEffelsberg	
Remaining Estimate:	Not Specified	
Time Spent:	Not Specified	
Original Estimate:	Not Specified	

Attachments:	Screenshot of PAF-	MPI_rfof_tx_setting1.csv EFF at 2017-05-09 220803.png	Screenshot of		
	Screenshot of PAF	-EFF at 2017-05-09 224341.png	🗋 serial_numbe		
Issue Links:	Related To				
	relates to	ADESCOM-27	ak02 MRO soa		
Tagged:	False				
Planning:	Unplanned				
Epic Link:	PAF on Effelsberg				
Planned Start:	05/May/17				
Planned End:	05/May/17				
Actual End:	09/May/17 11:15 P	М			

Description

The bias current config memory is wiped on all four backplanes on the MPIfR PAF. This appears sin is preventing successful PAF startup at Bonn.

ping Deng, Xinping (Max Planck Institute for Radioastronomy), Deng, Xinping (Max Planck Institute Marsfield), Brothers, Mike (CASS, Marsfield)

Comments

Comment by Chippendale, Aaron (CASS, Marsfield) [05/May/17]

This screenshot shows that the PAF bais current config memory has been wiped on all backplanes



This manifests in startup errors:

2017-05-05 12:43:38.785 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
Startup:pafCtrlComms: PAF Controller Communications OK (Serial No)							
2017-05-05 12:43:39.885 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
Relative Humidity Sensor power enabled							
2017-05-05 12:43:42.152 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
Controller hardware alarms disabled:							
2017-05-05 12:43:44.313 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ас						
Controller current hardware alarms : Elect interlock open							
2017-05-05 12:43:45.313 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
Power Supply not present							
2017-05-05 12:43:45.314 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
not present							
2017-05-05 12:43:46.314 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
up Backplane 1							
2017-05-05 12:43:53.631 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
up Backplane 2							
2017-05-05 12:44:00.643 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
up Backplane 3							
2017-05-05 12:44:07.965 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
up Backplane 4							
2017-05-05 12:44:15.001 INF0 [0x7f292d57a700] askap.ioc.ade_paf.adbe.PafController	ac						
Configuring dominos							
2017_05_05 12.11.15 007 FDDOD [0v7f202d572700] ackan ior add naf adda DafControllar	20						

Comment by Chippendale, Aaron (CASS, Marsfield) [05/May/17]

For now we follow the workaround in ADESCOM-27 of unchecking the optical startup enable. This results in bias currents that are falling off the low end of the acceptable range. This is good enoug

Comment by Chippendale, Aaron (CASS, Marsfield) [05/May/17]

Here's the domino serial numbers in the MPIfR PAF: serial_numbers.csv[®]

Comment by Chippendale, Aaron (CASS, Marsfield) [06/May/17]

Cheng, Wan (CASS, Marsfield) and Beresford, Ron (CASS, Marsfield), could you please help us get t dominos with the above serial numbers?

Comment by Chippendale, Aaron (CASS, Marsfield) [08/May/17]

If we can get the settings documented during ATE into a .csv file then it is possible to upload the s **PAF Power-up** sub menu and then choose **PAF Domino Optical Power Reload**. The settings have

- 1. Backplane No
- 2. Domino No

- 3. Domino SN
- 4. RFoF Tx SN
- 5. CH1optPwrCtrlMemMon
- 6. CH2optPwrCtrlMemMon

I've already put the serial numbers in the attached serial_numbers.csv[®].

Comment by Beresford, Ron (CASS, Marsfield) [09/May/17]

Got it ! 🙂 👍

Comment by Cheng, Wan (CASS, Marsfield) [09/May/17]

Hi Ron:

Please see the attached.

Wan

Comment by Beresford, Ron (CASS, Marsfield) [09/May/17]

thanks Wan.

Did you have two or three remaining in the production database? There were the two MPI spares a

Comment by Chippendale, Aaron (CASS, Marsfield) [09/May/17]

Thanks Cheng, Wan (CASS, Marsfield) and Beresford, Ron (CASS, Marsfield). I'll try uploading these how it goes.

Comment by Chippendale, Aaron (CASS, Marsfield) [09/May/17]

Domino RF Bias currents before fixing the bias settings:



Comment by Chippendale, Aaron (CASS, Marsfield) [09/May/17]

I just uploaded the settings Cheng, Wan (CASS, Marsfield) provided via this file serial_numbers_up *Reload* option in the *Test PAF Power-up* sub-menu of paf.py.

Following that we get sensible readback of the bias settings and reasonable bias currents as show



Comment by Chippendale, Aaron (CASS, Marsfield) [09/May/17]

The Domino bias settings have been reloaded, but we should double check that they are persisten

Comment by Chippendale, Aaron (CASS, Marsfield) [10/May/17]

The PAF was just power cycled and the domino bias settings were persistent.

Comment by Brothers, Mike (CASS, Marsfield) [11/May/17]

We have a safeguard in the ASKAP PAFs that we monitor the PSU voltages during start-up. MPI co their PAF PSU.

Generated at Thu May 14 22:53:06 AEST 2020 by Chippendale, Aaron (CASS, Marsfield) using Jira 7 sha1:5ef91d760d7124da5ebec5c16a948a4a807698df.