

Minutes for AMiBA Engineering Telecom 20070308, UTC 1:00

Regular Meeting Time: UTC 1:00 Every Thursday

USA Dial-in = 1-877-505-6247; passcode 8339148 #; mod_code 2917771 #

Outside USA Dial-in = 1 630 693 3224

- Hexapod operation issues:
 - Stop problem persists.
 - Patrick found ACU Stop always happen right after the TX/RX LED on PLC went out.
 - Homin points out in tcpdump logs, only shows problem between ACU-PTC.
 - Patrick shows the problem happens even if only ACU-PTC(HPC and PLC as well) are connected. The problem also is not specific to a particular switch.
 - Jack 3 stability:
 - Pablo thinks this is not a real jack length change problem. It is more likely an encoder problem. Clauss will help with updating the PLC(?) software in order to record the auxiliary encoder at the same time.
 - Backward transformation glitches:
 - Patrick reported problems in the log file which shows jump in pointing while the jack lengths are smooth. It is a software problem and has been reported to Vertex.
- Testing on site:
 - Plan (Hiroaki):
 - Radio alignment. After 18N-m torque applied to all dishes, this is the first time. Will observe Saturn.
 - Ground pickup with etd2/demod.
 - Verify dish installation repeatability under 18Nm torque.
 - Blank sky / DC offset new data.
 - MTC asks for more detailed plan and offline discussions.
 - IF power alignment:
 - Derek is aligning the power at IF box output to 0dBm, 1st section input to -12dBm and output -7.0dBm with adjustment to the VGA.
 - The stability of the TP detector and RO response was questioned.
 - The custom made ROs have large scatter in the v2f conversion from chip to chip. Will try to improve on this aspect in 13-element expansion (by using commercial v2f chip?).
 - Some discussion on the VGA tuning procedure in observation. The discussion was not final (I think?).
- General site issue:
 - Road work. The road to MLO will be closed from 7.30am to 4.30pm everyday. The work will likely last for 3 months. Pablo will keep tracking the progress on this work.
- 1.2m Dish:
 - Ted has placed order to Cotech. The 1st dish is expected to come 3 months later. However, Cotech seems to project with an optimistically tight schedule of 4 dishes every 2 months after the first one.
 - Pablo has measured the tilt of Rx to Platform and Dish(0.6m) to Rx with a dial gauge. The result will be posted after meeting. The information is useful to determine the spec on 1.2m dishes.
 - Philippe estimated the weight reduction by using fewer layers of high strength fiber. It looks good, but the fiber is export controlled both from US and Japan. It could take a long time to obtain material (?? Months?).
- Rx
 - The new IF/LO bracket design was reviewed last week. Will need Johnny to modify some part.
 - The new IF/LO is estimated to be delivered end of June. The MMICs were obtained but there were some problem in obtaining the right capacitor and packaging is delayed. Prof. Chu's student may need some help from us.
- Calibration/Observing strategy:
 - MTC asks for a internal review on the strategy in two weeks (before panel meeting). In this

review we should demonstrate the strategy and the required pipelines.

Traveling Schedule to Hilo:

ASIAA Hawaii: <http://pmo.asiaa.sinica.edu.tw/Hilo%20office/>

AMiBA Website: <http://amiba.asiaa.sinica.edu.tw/>

Distribution List:

kylin@asiaa.sinica.edu.tw, ctli@asiaa.sinica.edu.tw, dkubo@sma.hawaii.edu, homin@asiaa.sinica.edu.tw,
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hueiwang@ew.ee.ntu.edu.tw, pshaw@asiaa.sinica.edu.tw, yjhwang@asiaa.sinica.edu.tw,
f87026@ew.ee.ntu.edu.tw, ho@cfa.harvard.edu, jbp@cmu.edu, swchang@asiaa.sinica.edu.tw,
thc@ew.ee.ntu.edu.tw, chchang@asiaa.sinica.edu.tw, ken@asiaa.sinica.edu.tw,
fabl@asiaa.sinica.edu.tw, poshiro@asiaa.sinica.edu.tw, jlim@asiaa.sinica.edu.tw,
wwilson@atnf.CSIRO.AU, pablo@asiaa.sinica.edu.tw

Please contact MTC for managing this mailing list