

Minutes for AMiBA Engineering Telecom 20070104, UTC 1:00

Regular Meeting Time: UTC 1:00 Every Thursday

CT, Chia-Hou, Joshua, Johnny, Hiroaki, Homin, Johnson, Locutus, Eugene, MTC, Ted, Suwei, Pablo, Keiichi, Proty, Pierre, Pablo

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- The Current Issues: (with some last-meeting update)
 - Lacking manpower. Ken had a family emergency and had to fly home on New Year Day. Only Pablo, Peter, and Su-wei on site.
 - Ant-4, IF/LO module problem. One of LO pin switches was no working (new module). Replaced by Su-Wei.
 - Correlator, missing 9 baselines. CT commented likely a problem related to power divider. Will be checked.
 - Autoscript & a-boss:
 - Michael suggest to cross check pointing information (Az,El,RA,Dec) with VA_AMIBA log files which record the actual hexapod/pointing information sent to Vertex machines. Keiichi was doing that -- we need to check on-source timestamps and coordinates when analyzing data.
 - (20061228) DC offset is around few hundreds counts and varies. CT would work on electronic to resolve the issue before adopting another switching method.
 - Ant 6 cold head seemed stable now. Keep under observation
 - (20061228) Shelter operation was still not final. Continue manual-servo operation.
 - (1130) M1 & M2 load-cell installed. Ran into problem with M3. Mechanical interference between load-cell and truss. Pending further discussion with Ted on solution. Will test M1 and M2, plus PLC control at the moment.
 - (1026) No update on installation of transit voltage sensor (TVS) for surge protection.
 - (2006 1019) Patrick: 2nd OT mounted. Ready for testing. GC will run optical pointing test.
- CT sent out a nice document on correlator system and operation. Would be a good reference for site operations correlator.
- UPS & Power Supply (48V) for 13 elements. On-going discussion.
 - Some update from CT from this week.
 - Use the new PS (48V 40A) to power 2 correlator boxes. Free one (existing) acopian PS for rxs or other use. Need 2 more acopian PSs (one spare) for 13-element operation. Joshua will place the order.
 - The existing UPS (now only used by vertex machines) has sufficient capacity to support PS for 13 elements. No need for new purchase.
- 1.2 m dish:
 - (0109) Philippe updated 1,2 meter antenna model. Need feasibility information from vendor.
- MTC: OMT is ready. Johnson and MT checked on data, gave an OK for shipping out of NRAO.
- (0108) Calibration system meeting: Organize the team a bit. Lack an overall plan on how to proceed. Pierre to prepare a work plan in two weeks.
- (20061113) Photogrammetry. No update.
 - Modeling the deformation based on the new set of photogrammetry data. (Ted &/or Philippe)
 - (1106) Ted sent out a draft report is out to Philippe for review. Would circulate once clear with Philippe.
 - (1106) Michael K. stressed the importance of understand the 4-fold symmetry in platform deformation, for the future implementation of the resolution.
- (20061019) Scanner system on top of the platform for near field beam pattern measurement. System is in preliminary phase. Su-wei and Eugene are working on this.
- (20061019) Proty: Data server arrived. John Cheng was helping setting it up.
- Major Issues:
 - (20060517) Large temperature variation in correlator. Major problem. Resolution to be investigated.
 - (20061109) Need further work to prevent dish from damage during Sun scan.

- (20060507) DRO & receiver overnight stability. Got measurement. DRO over night seemed OK in both phase and amplitude. MT urged everyone to look into what were the realistic numbers we were after. Would come back to this issue again.

Traveling Schedule to Hilo:

Su-wei: 11/23 – 02/02/07

Mark Chen: 1/11 – 2/12/07

Proty: 1/12 – 2/12/07 (??)

Locutus: 1/11 – 2/11/07

Homin: 1/25 – 2/8/07

Ken: 1/27 – 4/21/07

CT: 1/20 – 2/12/07

Chia-Hou: 3/1 – 4/1/07

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