



hi

raj uprade <rajuprade@gmail.com>
To: Nimisha G Kantharia <ngk@ncra.tifr.res.in>
Cc: onlinev2@gmrt.ncra.tifr.res.in

Mon, Jun 2, 2014 at 1:32 PM

Hi all,

Modification in the list :

As the next step in the OnlineV2 testing following the successful testing of:

1. Multiple MCM control from OnlineV2 - eight in lab and two in antenna base.

>>> MCM has been installed at C01,C04,C09 & C10 apart from two MCM in C06 directly communicating with Online_V2.

2. Round trip time measurements for command-response for (1) common network (2) isolated network
3. Continous temperature monitoring in an antenna base and logging in a database.
4. Python -> OnlineV2 -> MCM in lab
GUI -> OnlineV2 -> MCM in lab
5. Python environment -> socket communication for operator UIs
6. MCM control of FE/common box - (good work by Rodrigues here too)
7. Switch - MCM - switch setup in lab/antenna base.
8. GWB correlator interfaced & successfully tested with Online_V2 during MTAC period April 2014.

(Please add what else has been tested.)

These can also go under milestones tab in Vanilla forum. If one remembers the dates on which these were tested (maybe MoM might have the details), then the dates can be included else roughly month/year.

>>>> We already have milestone section in Vanilla forum where all above listed point are kept in .pdf file.

I think we are now ready to setup the following in the lab and discuss/execute this:

1. Single MCM controlling/monitoring (a) sentinel unit (b) OF unit.

>>> We have done this test during April 2014 MTAC period at C06 antenna.

2. Single MCM controlling (a) sentinel unit (b) PC 104.
3. Connecting all MCM/PC104 to Sentinel MCM for any local problem reporting/reboot/emergency/backup path and checking feasibility. We have discussed this before but not followed it up so maybe we should take it up now.
4. Controlling PC104 at an antenna base through OnlineV2 - is this even possible without affecting the existing ONLINE setup ?

>>>> We have one PC104 card in Lab, which has antenna sub net IP (192.168.21.100).

Online_V2 has been interfaced with PC104 card kept in Lab. Some reading/monitoring commands are yet to be implemented by Mr. Thiyagu. I have talked with him. He is busy with some other work, once he is free, We both will sit together and do the final command & response thing.

Some of the other items that we need to discuss/work :

5. Enabling coding of procedures in python environment
6. Dividing commands between OnlineV2 and python. We have discussed this but I think its not entirely clear yet. It might be useful to take an example such as pointing procedure and then examine it on both platforms.
7. Astrophysics/NOVAS Library installation + interface.
8. Database - shared memory. Statistical tools for examining and studying the control data.
9. Web-based display of astronomical data - enabling absentee observing.
10. Desktop GUIs/web-based GUIs
11. CASA pipeline to image a point source data.

Thats all for now.

I hope we can take up some of these issues tomorrow - can I request relevant inputs from all on items 5-10. Can we schedule one or more of the test from items 1-4 tomorrow? The tests can be in late morning (12 noon) and we can have our regular meeting at 3pm.

Raj, can you please save these lists at some appropriate place on Vanilla forum so that we can refer to it when required. I also request all of you to add to it if I have forgotten some points.

>>> I will save it on Vanilla forum.

Thanks & Regards,
Raj Upgrade
Engineer-C
GMRT-TIFR