<u>Minutes from CHPS Meeting Thursday August 20, 2009</u>

Attendees:

ABRFC – Billy Olsen, Mike Pierce, Eric Jones
CNRFC – Rob Hartman, Scott Staggs, Pete Fickenscher
NERFC – Rob Shedd, Alison Gillis
NWRFC – Joe Intermill
NOHRSC – John Halquist
Deltares – Edwin Welles
OCWWS – Randy Rieman
OHD – Pedro Restrepo, Jon Roe, Joe Gofus, Chris Dietz

Pre-reading:

- Support log distributed on 8/20/09 via email to the chps_migration infolist.
- Draft agenda for CAT-II workshop, attached to today's meeting agenda

1. Review Support Log

There are no major blocking issues.

Two new issues have been added this week: #5 (open) and #38 (already closed). Originally Micha couldn't reproduce the issue described in #5, but now Matthijs has been able to reproduce. An ops call will be held today; some topics will include changing the way disk space is allocated (for /data/local), and moving the chps directory because it's severely impacting what can be done with the live system. These conversations will tie in with other discussions being held regarding software performance; for example, we're considering using local LX disk space to house copies of the OC/Firebird database. We need to make sure both groups of people stay in the same loops.

Action: none.

2. Performance update from Peter @ CNRFC

Ref. Peter's email "report on CNRFC site support visit Aug. 09" sent to the chps_ops list on 8/19/09.

Peter is currently at NWRFC for their site support visit. He's found a problem with the Configuration Manager at NW that was *not* seen at CNRFC; and he has installed a development version at NW to fix the problem. Peter will consider what needs to be done at CNRFC and he will then get in touch with PeteF.

Performance tests: Peter has found very similar performance numbers at NW as at CN. The longest runs were the initial ones, where the system needs time to cache. The numbers seem to indicate that running on the NAS is twice as long as running on the local system (chps3).

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The results are similar to the numbers seen at OHD, but more than those seen at Deltares – possibly because the new machines at Deltares have clean disks? The test involved an esp run on just one segment on the Little N. Santiam. The next round of improvements will focus on using the local disk rather than NFS mounted space. The tests themselves took about 30 minutes to conduct.

Action: none.

3. Review proposed agenda for CAT-II workshop

Ref: attachment to agenda.

Chris noted we only have 1.5 days, and we won't be able to "park" items as we often do during the CAT workshops because there's no spare time; the only flexibility we have is on Thursday 10/1.

RobH suggested adding one item to the agenda: implementation plans from the CAT. We agreed to share them. NERFC and CNRFC will definitely have something to share by October 1.

Action: Chris to update the draft CAT-II workshop agenda with suggested item.

4. Other

- Status of NOHRSC data collection: John has a directory structure from Peter but RandyR will need to review and give final approval. The collection capability will be ready by the workshop. John will need to test with one of the CAT RFCs first.

- WaterML: a list of NWS requirements has been forwarded to CUAHSI/Dr. Maidment, who has shared them with others working on XML. This group considers the list to be fairly extensive so they may need to prioritize them. A multi-agency (federal) meeting is planned for later in CY09. The CUAHSI Executive Board will meet in DC at the AGU headquarters on September 1; Gary will give a presentation on CHPS and IWRSS. It isn't clear how quickly CUAHSI can act on our requirements.

- Related to WaterML item: Dan Pokorny needs details of the FEWS XML schema in order to proceed with his ratings program (rcurve). Edwin will send him the FEWS wiki link. Does the FEWS PI-XML definition adequately discriminate between river gauges and reservoir storage? For example, users might want to display stage vs. discharge, and storage vs. elevation. No – FEWS doesn't recognize reservoirs; that intelligence is within the model (e.g. Res-J). At present the IHFS_DB schema doesn't distinguish between the two, either. This was not in the requirements for CUAHSI, and is not a block to CHPS BOC, but we must make an improvement in future.

- At the last CAT workshop RobH and Harold agreed to draw up a white paper on future Hydrology needs wrt operational support, once CHPS provides the basis for a broader

community concept. The group had acknowledged a need for a different kind of support; the white paper will ultimately be presented to the OCWWS Director. This item need to be added to the CAT workshop agenda.

- A new version of the IFD demo was distributed last week. It includes a full configuration for CNRFC. Recall that we recently made a decision to hold off generating full configurations for all CAT RFCs until the migration scripts are enhanced to do it automatically (waiting for Micha to return).

- ResSim: Jon has been exchanging emails with HEC about formal delivery of ResSim. RobH will contact HEC after this meeting. We also want to make sure the version currently being developed for ensembles will be backwards compatible with this delivered version; CNRFC is not interested in using the new ensemble features. HEC is also working on some performance improvements as part of their ensembles work.

Action: RandyR and JohnH to agree on a directory organization for the CHPS data.
Action: Edwin to send Dan Pokorny the wiki link to FEWS PI-XML documentation.
Action: Edwin/Chris to add a discussion on "Operational Support white paper" to the CAT workshop agenda.

Next meeting: Thursday August 27, 2009 at 11:00 am EDT.