<u>Minutes from CHPS Meeting Thursday October 9, 2008</u>

Attendees:

ABRFC –Mike Pierce, Jeff McMurphy
CNRFC – Rob Hartman
NERFC – Rob Shedd
NWRFC – Harold Opitz, Joe Intermill
NOHRSC – John Halquist
Deltares – Karel Heynert
OCWWS – Mary Mullusky, Randy Rieman
OHD – Pedro Restrepo, Jon Roe, Chris Dietz, Joe Gofus

Pre-reading:

- Email from Chris on 10/7/08, subject "Verification, calibration", with attached section 13 extracted from Deltares' Software Migration Mapping document.

1. Verification and calibration - discussion

Calibration – for BOC we previously agreed we would run conversion tools on the old files, so we don't have to re-do any calibrations. For new calibrations we could continue to run NWSRFS to generate historical MAP and MAT files, and then run the conversion tools. The issue there lies with the legacy pre-processors, which will be different from those in CHPS. So we need a different solution, one which will be ready for BOC-II – i.e., September 2009. Deltares agreed to help the NWS define specifications so the NWS can come up with an approach, design, and solution.

Verification – NWSRFS has no verification tools as such. Instead, IVP is used to analyze deterministic forecasts after the fact. IVP might prove to be useful to validate CHPS versus NWSRFS forecasts. EVS (the prototype from HSMB) is for probabilistic products. The goal will be to merge IVP with EVS into a single tool that meets the needs as defined by NBVS. IVP contains some basic tools that might help with real-time verification on deterministic forecasts. The biggest concern right now is the archive database.

Action: none

2. ATAN 909 + new ATAN for CNRFC/ResSim

Under the proposed revision to ATAN 909, 3 of the 4 CAT RFCs can remove the "recycled" workstation used as the "chps database server". CNRFC must keep all their Pilot hardware in place because they're running ResSim operationally; they have 3 database servers purchased independently.

Action: CAT to review new draft ATAN 909 (sent to group via email on 10/9/08, subject "revised version of ATAN 909"). Comments due by 10/17/08

3. Plan for software installations prior to start of migration

Hardware we purchased is 64-bit. The FEWS FSS is 64-bit. What about OHD applications? These are 32-bit. At the moment AWIPS is denying use of 64-bit kernels. RH-5 reportedly auto-detects and adjusts for 32-bit applications in a 64-bit environment; RH-5 will be included as part of AWIPS OB9.1, due in the field ~Fall 2009.

CNRFC has extra servers, to be installed in 2 separate racks. Synchronization setup is extra work but not too difficult.

RandyR will prepare hardware installation instructions in the AWIPS fashion including photos; Jim Lane (OS&T) is helping. Randy estimates a first version will be finished next week. Randy will coordinate with the ESA at NERFC to test there, possibly the week commencing 20 Oct? From the 'rack consolidation' project, RandyR concludes we can use the racks as we want.

Deltares/Frederick with RandyR's involvement will visit NERFC to develop installation training material. Original plans for the week of Thanksgiving won't work due to absences. Suggestion that we switch to Friday Nov 21 through Weds Nov 26. Another option is Mon 12/1-Weds 12/3. RobS agreed to check the NERFC schedule to see who will be around when.

Software installation is separate. RandyR will conduct the non-FEWS portions (o/s, Tomcat, Postgres, etc.) of this installation for the CAT sites; he believes he can accomplish a more automated approach. For the FEWS portions, RandyR feels comfortable doing this too. He will install the latest stable release (from Sept/Oct). Deltares will provide training in the updated release later.

OHD reports that vanilla-flavored ftp from AWIPS to Deltares conflicts with NOAA security policy. We are required to use secure shell. Can Deltares re-configure their server for ssh? Deltares agreed to do so, but it will take a couple of weeks. Once available, JoeG's team will adjust the data transfer scripts to accommodate. Once tested, JoeG will send the scripts to ABRFC so they can start forwarding their data to Deltares.

Action: RandyR to check whether RH-5 (64-bit) does or does not auto-adjust for 32-bit applications.
Action: RandyR to coordinate visit to NERFC w/c Oct 20 with ESA.
Action: RobS to check staff availability at NERFC for the week preceding Thanksgiving and report back to Deltares and RandyR.
Action: Deltares to set up a secure server using ssh keys so OHD can modify the scripts to use secure data transfers between RFCs and Deltares; JoeG to deliver modified scripts to ABRFC when complete.

4. Other items

Action items 06-2008-60 through 06-2008-86 were reviewed.

Note: Action items from this and all previous meetings are contained in the "ActionItems" document maintained and distributed by Chris Dietz, OHD.

Next meeting: There will be no meeting next week due to multiple schedule conflicts. Next meeting will be Thursday 10/23/08.