

Notes from CAT-II Meeting Tuesday April 14, 2009

**Name of RFC representative in attendance:**

APRFC	Scott Lindsey
CBRFC	Michelle Schmidt
LMRFC	Dave Reed
MARFC	Joe Ostrowski, Patti Wnek (Peter Ahnert absent)
MBRFC	Tom Gurss
NCRFC	Larry Ellis (Mike DeWeese absent)
OHRFC	Tom Adams (Craig Hunter absent)
SERFC	John Feldt
WGRFC	Bob Corby

CAT members present:

CNRFC	Rob Hartman
NWRFC	Harold Opitz
ABRFC	Billy Olsen
NERFC	Rob Shedd

Also present:

Jon Roe, Chief, OHD HSEB  
Chris Dietz, OHD HSEB, CHPS Project Manager  
Randy Rieman, OCWWS HSD  
Edwin Welles, Deltares

**Document reference:** "Baseline Operational Capability II For CAT RFCs", Version 20090407, distributed by Rob Hartman via the cat\_2 infolist.

**Agenda:**

1. Review of recently updated sections within the referenced BOC-II document
  - 1.1. Section 2H Existing pre-processors
    - CAT-II would like to see existing pre-processors ported over to CHPS. Chris and Rob agreed to hold an offline discussion about this.
  - 1.2. Section 6A NWSRFS Operations

- BASEFLOW is NOT required. Work on this within OHD will be stopped.
- 1.3. Section 14 Run-time MODS
  - MODS for the BASEFLOW operation are NOT required. They are therefore not listed in the document.
  - MODS for the Continuous-API are required (APICBASF, APICCO, and AEICQN)
- 2. Continue discussion of the referenced BOC-II document
  - 2.1. Section 16 Ensembles
    - Requirement A includes running ESPADP in the background.
    - Requirement D: FEWS allows RFCs to run ensembles involving segments with different reservoir operations each run (can mix and match workflows).
    - A performance issue with Ensembles has arisen; Deltares and OHD will be addressing this as a top priority. While NWSRFS was designed and implemented to make the most efficient use of memory and disk access, the highly decoupled architecture of FEWS makes it less efficient. While the CHPS paradigm is new, we still can't afford to extend the run times as much as we're currently seeing. CAT RFCs will evaluate ensembles capabilities and report back to the entire group.
  - 2.2. Section 17 Calibration
    - OHD has begun work on ICP; goal is to address existing operations only (ICP) by January 2010. Other science issues will be addressed in the future.
    - Calibration of pre-processors will remain outside of CHPS.
  - 2.3. Section 18 Hardware
    - Local ET staff will be involved in the installation process. Randy Rieman has put together an AWIPS-like "Mod Note". Installation process will be more automated for CAT-II.
    - Installation instructions will be made available to CAT-II RFCs two or more weeks before installation is scheduled.
    - Hardware must be installed in REP racks. Sites must adhere to standards because we ultimately want AWIPS to incorporate into the baseline. Randy Rieman will issue an email on preparing for IP addresses – although they should be available we want to make sure sites to any prep ahead of time.
    - REP is sufficient to house the "offline system".
    - Specifications were generated by Deltares using their own expertise. Deltares takes system performance very seriously.
  - 2.4. Section 19 Failover/backup
    - What about on-site backup? CAT will know more as they move forward; this section can be expanded at a later time.
    - ER has documentation on RFC backup; ER will provide to the entire group. It's likely that once the CAT has figured out the off-site backup, the on-site requirement will also be met.
  - 2.5. Section 23 NWSRFS Techniques
    - CAT-II RFCs will send their list of Techniques to Chris (including esp).
  - 2.6. Section 24 IHABBS

- Used to generate basin boundaries for some RFCs. Informix is still used for older versions. CAT-II RFCs will let Chris know if they use IHABBS and if so, which version.
- 3. Rob Hartman will update and distribute the BOC-II document based on discussions from this meeting.
- 4. Chris will distribute notes from this meeting.
- 5. **Next meeting: Tuesday April 21 at 11:00 am EDT**

Action Number/Item	Who	Notes
<b>C2-03102009-01:</b> Capture changes to BOC-II from this meeting; distribute updated version of BOC-II document	Rob Hartman	<b>Closed</b> (updated version emailed on 3/10/09 to cat_2 infolist)
<b>C2-03102009-02:</b> Distribute “matrix” from the OHD (“national”) Forcings Team, which describes CAT strategy/requirements for transition to CHPS in the absence of NWSRFS pre-processors	Harold Opitz	<b>Closed</b> (matrix emailed on 3/10/09 to cat_2 infolist)
<b>C2-03102009-03:</b> Each CAT-II RFC to prepare initial version of their entry for the Forcings “matrix”	CAT-II attendees	<b>Closed</b> (all responses received via email by 3/24/09)
<b>C2-03102009-04:</b> Get statement from Deltares whether FEWS has capability to identify sensitive/proprietary data that must be excluded from external reports (BOC requirement)	Harold Opitz	<b>Closed</b> (email exchanged on 3/17/09). <b>Update</b> 3/24/09: Chris to send to CAT-IIs the answer from Deltares for this AI
<b>C2-03102009-05:</b> Distribute notes from this meeting to the cat_2 infolist	Chris Dietz	<b>Closed</b> (emailed on 3/10/09 to cat_2 infolist)
<b>C2-03172009-01:</b> Distribute notes from this meeting to the cat_2 infolist	Chris Dietz	<b>Closed</b> (emailed on 3/20/09 to cat_2 infolist)
<b>C2-03242009-01:</b> distribute to all of the CAT-IIs instructions (also script?) originally developed by Joe Ostrowski for the purpose of identifying NWSRFS operations in active use	Chris Dietz	<b>Closed</b> (emailed on 3/25/09 to cat_2 infolist)
<b>C2-03242009-02:</b> review list of operations to make sure they’re accurate; please notify RobH if any critical operations are missing	All CAT-IIs	<b>Closed</b> (emails received)
<b>C2-03242009-03:</b> review list of operations in BOC-II doc to make sure it matches the original script output we gathered	Chris Dietz	<b>Closed</b> (emails received)

<b>Action Number/Item</b>	<b>Who</b>	<b>Notes</b>
<b>C2-03242009-04:</b> update (correct, complete) the Software Migration Mapping document; distribute the updated version to the cat_2 infolist	Deltares/Edwin Welles	Open.
<b>C2-03242009-05:</b> Compile and distribute to the CAT-II a matrix showing every RFC's response for AI # C2-03102009-03	OHD/TBD	<b>Closed.</b> Sent via email by Mark Glaudemans to cat_2 infolist on 3/27/2009
<b>C2-03242009-06:</b> Time series output from HL-RDHM must ingestible into CHPS; HSMB will define a format (e.g., SHEF) for said HL-RDHM output and change the HL-RDHM software accordingly	OHD/HSMB	Open.
<b>C2-03242009-07:</b> For agenda April 7 meeting: report from NERFC on their investigation into a replacement HWG process.	Rob Shedd	<b>Closed.</b> Presented as part of the 4/9/09 monthly briefing.
<b>C2-040720090-01:</b> Find out status of Baseflow implementation in OHD (incl MODs)	Chris Dietz	<b>Closed.</b> Now irrelevant, since no RFC uses BASEFLOW.
<b>C2-040720090-02:</b> Check to see if cat_2 infolist is working correctly. APRFC reports not receiving some mailings.	Chris Dietz	<b>Closed.</b> APRFC is receiving messages OK (email confirmation received). The problem is likely intermittent.
<b>C2-041420090-01:</b> Send out an email on preparing for CHPS prototype hardware IP addresses	Randy Rieman	Open
<b>C2-041420090-02:</b> Send out documentation to cat_2 infolist on ER approach/procedures for RFC site backup	George McKillop	Open
<b>C2-041420090-03:</b> Send list of Techniques used to Chris (including esp)	CAT-II	Open
<b>C2-041420090-04:</b> Let Chris know if you use IHABBS and if so, which version	CAT-II	Open