February 6, 2015

MEMORANDUM FOR: Distribution Email

FROM: Chris Caruso Magee
    Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades

The following accelerated items were implemented the past week:

RFC #640 – cfs v2.1.10 - Increased the array limit from 1M to 2M sfcshp observations in the convdiag and duprep executables. Also added tests to abort the job with error message "ufbtam mxtb overflow" when the array limit is surpassed. Implemented around 1600Z on Feb. 2.

RFC #641 – NCOSRV Dataflow v2.4.1 - The DBNet software on ncosrv is being modified to handle a change in the Aviation Weather Center's DBNet system to a virtual server. Implemented around 1700Z on Feb. 2.

RFC #642 – Increase the /var/log partition on the RHEL6 NCOSRVs by 5GB, which doubles the current capacity, to allow for more than enough storage space, for log rotation to successfully manage the log files when one of these systems has a role with verbose logging. Implemented around 1800Z on Feb. 2.

RFC #643 – In Boulder, add virtual data center to VMware Virtual Center. Add clusters and hosts to that new datacenter. Implemented around 1600Z on Feb. 4.

RFC #644 - Implement additional phase 2 blades to VCenter at NCWCP to provide additional resources for upcoming on boarding applications. Implemented around 1600Z on Feb. 5.

The following will be implemented on February 9, 2015:

RFC #646 – MRMS v10.0.2 – Around 1430Z, update Operational MRMS VMs to Send Data to the TOC

RFC #647 – WCOSS Dataflow v1.50.0 – Around 1430Z, modify the DBNet tables on both WCOSS and Boulder systems to change the backup capabilities of Boulder. NCEP will utilize Boulder for retrospective and parallel data for

customers. A small subset of models will still be fed to keep a semi-hot backup. Those models are: GFS. GEFS. NAM, RAP, and HUR.

RFC #648 – Around 1500Z, deploy a new "Data Questions" web form on the main NCEP and NCO left side menus.

RFC #649 – Around 1500Z, install Anaconda Software on CPC Compute Farm systems.

RFC #650 – Around 1500Z, install Matlab 2012A on one operational CPC CF system, to allow its performance to be compared to Matlab 2014B.

RFC #651 – transfer_WCOSS v1.0.0 - Around 1500Z, convert transfer_wcoss and transfer_catchup ecf and J-job scripts using the vertical structure standards.

RFC #652 – Around 2000Z, add 8 GB of RAM to the MRMS boxes.

The following will be implemented on Febuary 10, 2015:

RFC #653 – prod_filemanager v1.3.0 – Around 1120Z, update prod setup and cleanup jobs for phase 2 on WCOSS.

RFC #654 – NCOSRV Dataflow v2.4.2 - Around 1300Z, modify the Mirror package to correct the pattern matching issue discovered where some files are missing for the NDE sounding data sent to the TOC for the IDP transition.

RFC #655 – NOMADS v2.9.3 – Around 1300Z, modify the existing GDAS control file on NOMADS to fix a table structure change that occurred with the model upgrade. Also implement another grib filter.

RFC #656 - WCOSS Dataflow 1.49.0, NCOSRV Dataflow 2.5.0 – Around 1300Z, modify the DBNet software on WCOSS and ncosrv to begin sending CMC (Canadian Met Centre), ECMWF (European Centre for Medium-Range Weather Forecasting), and 0.67 degree resolution UKMet (United Kingdom Met Office) NAWIPS META Files to AWC and UKMet files to NHC, NCWCP, and SPC.

RFC #657 - G2TMPL Library v1.3.0 – Around 1400Z, the G2TMPL template library is being modified to add three product definition templates (PDT 4.1, PDT 4.11 and PDT 4.12) and two code tables (4.6 and 4.7) in GRIB2. These templates will be used in ensemble products in the upcoming GEFS and SREF model upgrades.

RFC #658 – Around 1500Z, move the Citrix load balancer from cabinet IDP AL34 to NCO AD33.

RFC #659 – NCO CM page v2.0.3 – Around 1500Z, rename existing summary links to point to 2014 Completed RFCs tab and add new links to point to Completed RFCs tab which will hold the current year's RFCs. Do this for CPC, OPC, WPC, NHC, NTWC, and PTWC.

RFC #660 – Around 2000Z, install wgrib & wgrib2 software on 6 Hydrometeorological Testbed servers.

The following will be implemented on Febuary 11, 2015:

RFC #661 – Around 2000Z, install Git on the CPC Compute Farm.

RFCs that are security-related are not included in the RFC Memo.

---- OPERATIONAL ANNOUNCEMENTS ----

1. The WCOSS Implementation Standards are available at

    http://www.nco.ncep.noaa.gov/pmb/docs/.

    Please adhere to these standards when submitting changes for the WCOSS.

2. Upcoming major changes to NCEP's production suite and details on any product or timing changes associated with upcoming implementations can be viewed at the following website:

    http://www.nco.ncep.noaa.gov/pmb/changes/

    Test data for major changes should be available six weeks prior to implementation. Anyone wishing to receive formal notice of the final pre-implementation testing and the opportunity to provide feedback on the proposed changes can subscribe to the Model Evaluation mailing list via:

    https://lstsrv.ncep.noaa.gov/mailman/listinfo/ncep.list.modelevalinfo

3. Maintenance of subscriptions to the Scheduled Operational Changes and Upgrades mailing list can be performed via the following website:

    https://lstsrv.ncep.noaa.gov/mailman/listinfo/ncep.list.rfcmemo

4. The 30-day evaluation of the upcoming RTMA/URMA upgrade is expected to begin the third week of February 2015. Further information will be disseminated as this date is firmed up.