

AWIPS OB3 Release Notes

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Section II - Fixes in OB3

The following DRs have been fixed in AWIPS OB3.
They are fixes to problems opened against releases prior to OB3.

1.0 D2D/TEXT/OTHER APPLICATIONS

1.1 Aviation Forecast Preparation System (AvnFPS)

- The AvnFPS watch program now launches successfully on the KDE text workstation at sites where stdout/stderr redirection is used. (DR 13670)
- AvnFPS sometimes cannot monitor the local TAFs because *disseminate.pl* removes files from /data/fxa/trigger. FWD discovered this when the AvnFPS software could not monitor their local TAFs (e.g. FTWTAFDFW). It was found that two lines near the end of their /awips/fxa/ldad/bin/*disseminate.pl* script were the problem:

```
@rmit = "rm $tmpFile";  
@rmit
```

In this case, \$tmpFile is /data/fxa/trigger/FTWTAFDFW, and the command deletes the FTWTAFDFW files from the directory. Later, when /awips/adapt/avnfps/1.0/bin/HP-UX/taftrigger runs, it cannot find the FTWTAFDFW product because *disseminate.pl* removed it. Thus, AvnFPS is unable to monitor the TAF. The following error appears in the AvnFPS TAF trigger log:

```
...  
taftrigger 06:01:22: processed  
/awips/adapt/avnfps/data/tafs/KTYR/0401080553=  
taftrigger 06:27:13: /data/fxa/trigger/FTWTAFDFW No such file or directory  
...  
taftrigger 07:59:08: processed  
/awips/adapt/avnfps/data/tafs/KTYR/0401080753A=  
taftrigger 08:05:24: /data/fxa/trigger/FTWTAFDFW No such file or directory  
...
```

The resolution is to comment out those two lines cited above in the *disseminate.pl* file. Nothing needs to be bounced to enact the change - the next trigger will use the modified *disseminate.pl* script. (DR 13725)

1.2 Climate

- The monthly climate program now retrieves the correct dates for maximum and minimum temperatures, max 24 hr precip, and max snowfall and snow depth for the month. (DR 10639)

- SG (snow grains) observations are now correctly stored as snow in the database, rather than hail. **(DR 12074)**
- The monthly climate program now correctly calculates the number of days with precipitation in the month, correctly handling days with a trace of precipitation. **(DR 12219)**
- The snowfall liquid equivalent is now rounded to nearest hundredth of an inch, rather than the nearest tenth of an inch. **(DR 12553)**
- The Climate program does not automatically retrieve the beginning hour and ending hour for a storm period to match the max storm total precip value. Instead, the user can input the max storm amount, and starting and ending times, using the "Edit Climate Data" GUI. For example, from the climate master menu, select "Set Up/Edit Climate Products". Select an existing monthly product. Check the weather elements section and ensure that under the "Precipitation" category, "Storm Max" and "Date" are selected. Save product, if necessary, and close. Run "Execute Monthly Climate". When the eyeglasses icon appears, select "Edit Climate Data". In the precipitation section, enter a value for the "Greatest Storm Total", beginning and ending dates, and hours. Select "Accept Values and Continue". When the eyeglasses icon appears, select "Edit Climate Product". The NWS products will show values for "Storm Total", as well as month, day, and hour. **(DR 12554)**
- When the descriptive name for a station ID is edited and saved via the Edit Station List GUI, the setup files for all products in which the modified stations are configured to be included are now automatically updated to reflect the name changes. Any subsequent climate runs for the affected products will now use the edited name. Previously, both of these actions had to be done manually. **(DR 13287)**
- Climate now correctly reports the liquid water equivalent of snowfall to the nearest hundredth of an inch, rather than to the nearest tenth of an inch. **(DR 13354)**

1.3 Color Curve/Blinking/Image Combination

- The toggling of a combined image now works consistently. **(DR 2677)**
- The manipulation of the color curves of images in 4-panel displays has been improved, fixing the following two problems: **(DR 8052)**
 - 1) if the color curve of the upper left image is chosen to be modified, the first attempt to modify it now succeeds.
 - 2) if the images in all four panels are chosen to be modified, the first attempt to modify the color curves now succeeds.

1.4 Exiting D2D

- It is now possible on the Linux workstation to close D2D when it has been iconified. Select mouse button three on the D2D icon in the tool bar on the workstation, and select close from the pop-up menu. The familiar query window then appears asking if you really want to close D2D, and upon answering yes, the D2D exits successfully. **(DR 1543)**

1.5 Hourly Weather Roundup (HWR)

- The HWR HTML Help page now displays successfully in Netscape when 'HTML' is selected from the Help menu in the menu bar of the HWR main GUI. **(DR 12187)**
- The HWR help available via Netscape is now up to date. **(DR 12367)**
- NWR product generation now completes successfully when station substitution occurs for a station. Previously, when creating an NWR product, if no METAR was available for a station, station substitution failed, NWR generated a segmentation fault, and the product was not created. **(DR 13203)**
- The HWR *Metardecoder* is now able to process MESONET and manual observations whose headers follow a different format than standard ASOS observations. **(DR 13231)**
- WFOs with all-marine HWR NWR products set up can now successfully generate these products. **(DR 13325)**
- The HWR decoder now looks at all METAR reports available for each station for the hour. Previously, the decoder only looked at the first report of the hour for each station, and disregarded any follow up reports from the rest of the hour. **(DR 13326)**
- The HWR decoder can now successfully decode a METAR that has an invalid time stamp in the WMO header. Previously, an invalid header resulted in the failure to decode the observation, even if the observation itself were valid. Now, the decoder skips the WMO header, and validates the rest of the METAR observation. If the METAR is determined to be valid, it is decoded successfully. **(DR 13327)**
- The HWR NWWS product now allows comments at the end of the product. Previously, if a user attempted to put comments (e.g., an explanation of abbreviations used in the product) at the end of the product in the product format file, the comments did not appear in the final product. **(DR 13373)**
- The HWR NWR now accepts Canadian observation reports and other locally generated observations that have AFOS IDs other than 'MTR'. A new dialog box now pops up to warn of a potentially invalid observation when the user tries to save or update such PILs,

but HWR will accept the PIL if the user acknowledges the warning window. **(DR 13379)**

- The NWR and NWS programs can now handle the situation where a METAR contains an invalid station ID. Previously, when this situation occurred, an error was generated and the programs failed to generate a final product. Now, an error message is logged, but the programs continue on to process the rest of the stations and produce a final product. The invalid station will not have any data in the final product, but the rest of the stations will appear correctly. **(DRs 13391, 13548)**
- Marine winds are now calculated correctly in HWR. Previously, the conversion equation had an incorrect value that led to the marine winds being calculated incorrectly. **(DR 13580)**

1.6 Local Analysis and Prediction System (LAPS)

- The LAPS README file accessed from the LAPS Tool GUI has been updated to the current release. **(DR 13122)**

1.7 Local Storm Report (LSR)

- The problem where remarks do not appear in the LSR product when saved to the event log before preview only occurs on the HP workstation. This is not a problem on the Linux workstation. **(DR 11731)**
- An unusually long entry in the Initials box no longer crashes the LSR GUI or results in an error. **(DR 12677)**
- Lower case letters are now forced to upper case in the Add/Edit Free Text window. **(DR 12896)**
- LSR now correctly handles counties that are in more than one CWA. Previously, this problem resulted in LSR operating with many cities missing or not recognized when dealing with such a county. **(DR 12914)**
- The LSR GUI is now able to save products to the text database with the correct headers at OCONUS sites when in practice mode. Previously, the LSR GUI was hard-coded for CONUS headers when in practice mode. **(DR 13022)**
- When generating the LSRcities.txt file upon initial startup of the LSR GUI, the GUI is now able to read the LocalCitiesInfo.txt file from /data/fxa/customFiles as well as from /awips/fxa/data/localization/<site>. **(DR 13370)**
- The method used to resolve the problem of a lat/lon entry producing duplicate city names in the LSR GUI has been improved. Previously, in this situation, the user might have

encountered an error message regarding not being able to resolve the duplicate city. Now, this message is not received, and the correct city appears in the city entry in the LSR GUI automatically. **(DR 13384)**

- The county and state are now automatically updated when a lat/lon is entered in the LSR GUI. **(DR 13471)**
- The LSR GUI now uses the post-localization file in ../localizationDataSets to determine CFROMZ, rather than the pre-localization file. **(DR 13520)**

1.8 Looping/Sampling/Swapping Panes/Zooming

- Sampling of blinking images now works correctly. **(DR 8198)**

1.9 Map Features/Legends

- The Hide Legends feature is normally used when time varying images or overlays are displayed. However, it does work correctly if used when no such data are displayed. In this case, when Hide Legends is selected, the map background legends appear. **(DR 2678)**

1.10 NOAA Weather Radio (NWR) Browser and Editor

- When a new product is loaded in the NWR Browser from the Text Identifier command line, the creation, effective, and expiration dates and times are now automatically set to the current date and time. **(DR 7822)**
- The expiration time of CRS-bound products is no longer incorrectly set to the current time in the NWREditor by default. **(DR 12825)**

1.11 Product Maker

- Product Maker no longer has problems displaying specific humidity fields, specifically when specific humidity is added to itself. **(DR 3856)**
- Product Maker no longer has problems computing ddt of some parameters. **(DR 6464)**

1.12 Radar

- On the HP workstation, in the RPS List Editor, when the user selected to add SRM, the check box next to (to the left of) "Use average speed and direction of currently identified storms" was cut off due to the window size being too small, and the window could not be

resized. However, this is not a problem on the Linux workstation. The check box can be accessed on the display there. **(DR 11361)**

- Printouts of radar images done on the HP workstation have clutter around the edges which do not appear in the actual product. However, this is not a problem on the Linux workstation. Printouts done there print exactly as shown on the D2D display. **(DR 11426)**
- On the Linux workstation, displaying a radar cross section product on a display pane that immediately previously had an image displayed in it no longer causes the display pane to crash. **(DR 12780)**
- The DHR product now auto-updates successfully. **(DR 12803)**
- It is now possible to successfully request MRU's with multiple elevations. Previously, when a user performed a request for multiple elevations of the MRU product, only a single elevation was returned before the *dialRadar/ORPGReqMgr* exited. **(DR 12830)**

1.13 Record Climate

- The RER (record climate) product no longer has an improper line break in the Mass Media Header. **(DR 12919)**

1.14 Satellite

- The IR Satellite difference products 11-3.9 and 11-12 now consistently display correctly at the CONUS scale. **(DR 13006)**
- GOES Satellite Imagery Loops no longer sometimes appear discontinuous or jittery. Previously, after the convergence of the SBN's GOES East and West channels, the GOES satellite loops at some sites, and at certain D-2D scales, appeared to be discontinuous or jittery. **(DR 13181)**
- The POES Availability plot now includes stations below 75 degrees N latitude, rather than only those below 52 degrees N latitude. **(DR 13242)**
- The GOES High Density Winds satellite derived wind plots now use the correct field to determine the source of the plots. The problem with using the incorrect field was that when the user loaded a particular satellite derived wind plot, such as IR, there was no certainty that the winds displayed were actually derived from the IR source. They could have come from the IR, or from any of the other channels. **(DR 13362)**

1.15 Surface

- The TPC HurWind products loaded slowly on the HP workstation, but they load much faster on the Linux workstation, so this is no longer a problem. (DR 12633)
- The FFG image on AWIPS for the CNRFC area of responsibility now displays correctly. Previously, it was skewed to the east slightly due to an error in a localization file. (DR 13585)

1.16 System for Convection Analysis and Nowcasting (SCAN) and Flash Flood Monitoring Program (FFMP)

- False rate of change alarms are no longer generated for CAPE following periods when CAPE is not available. (DR 12863)
- FFMP now correctly handles counties that are in more than one CWA. Previously, this problem resulted in FFMP operating with many basins missing or not recognized when dealing with such a county. (DR 12913)
- The *./mainScript.csh - scan* localization now remakes the FFMP GELT, BCD, and localization lookup files when changes are made to the WFO projection file (*wfoScales.sup*) or to the *aggr_basins800wfo_gsf.txt* file. Previously, these FFMP files were not remade by localization in this situation, resulting in the FFMP basins being shifted from their proper positions. (DR 13039)
- In the ForcedFFG GUI, the county names are now used to represent selected counties, rather than the county FIPS IDs. (DR 13098)
- FFMP now successfully handles basins that do not have any radar bins. Previously, if the basin shapefile had some basins without bins, uninitialized, garbage values were assigned for those basins' rates, which then produced nonsensical values (e.g., 65 inches per hour). The FFMP display and table now recognize binless basins, and the scan localization produces the file */data/fxa/radar/kxxx/ffmp/binlessBasins.dat* to list them. In this case, FFMP displays a pop-up window upon startup that alerts the user to the existence of the binless basins, and those basins have "NO BIN" for rate & accum values in the FFMP table. If there are no binless basins in the shapefile, the *binlessBasins.dat* file will be empty (having only the number "0"), and the pop-up window and "NO BINS" table behavior will not be observed. (DR 13184)
- FFMP now handles data gap situations correctly. Normally, when FFMP encounters a precipitation data gap (due to dry conditions, or missing DHR radar data), FFMP goes into a semi-hibernation mode until precip is again detected. Previously, however, a prolonged gap sometimes caused an FFMP inventory time error condition that shut down the table. Even if the table ran, rainfall rates and FFG were not updated during a

dry-condition gap, causing confusion for the user. The solution was to write basin rate data to the FFMP inventory file whenever DHR is available (to address the dry-condition gaps) and to adjust the FFMP inventory time handling (for the no-DHR gaps). Thus, FFMP now resets accumulation inventories after a specified data gap, and writes zero rates when there is no precip. The user now sees that, in clear-air conditions, FFMP correctly shows 0.00 rates. Also, if there is a clear-air day in between two rainy days, FFMP now starts up successfully, even if the DHR is missing for the clear-air day. Lastly, if the DHR is missing for a prolonged period (about 40 minutes), FFMP resets its accumulations before that gap to "NA". **(DR 13278)**

1.17 Text Product

- The text product CCCFOFUS is now identified correctly with the WMO Header FDUS01, rather than DFUS01. Thus, it is now successfully ingested, processed, and stored in AWIPS as CCCFDFUS, and is displayable in a text window. **(DR 3017)**
- The **textdb -v** command now works correctly when used on the workstations. Previously, when attempted from the workstations, the versioning did not succeed, and it sometimes caused the *TextDB_Server -Read* process to crash. **(DRs 12728, 12729)**
- OSB Category products no longer fill up the fxatext database. **(DR 13090)**

1.18 Text Workstation

- Text database retrievals are now consistent whether they are performed using the AFOS PIL or the WMO ID. Previously, sometimes different versions of a product were displayed depending on whether the AFOS PIL or WMO ID was used to call up the product. **(DR 6460)**
- It is no longer possible to move a text window after it has been maximized. It becomes locked to the left side of the screen until it is restored to original size. This prevents the problem where menus appeared in the wrong place when the text window was maximized, then moved, after using the AFOS Browser. Subsequent moves of the window after it has been restored to its original size do not result in any menu problems either. **(DR 8317)**
- The text browser can now successfully retrieve the inventory list for products with 1000 or more entries. Previously, particularly with MAV and MEX products, the text browser sometimes returned an error if too many entries were returned for a text browser request. **(DR 10156)**
- The Text Message Intercept feature has a new operational mode: "Only store in TextDB with the normal PID". **(DR 10297)**

- The text window now successfully handles the case where the user requests a text product that has no data in the database. Previously in this situation, in addition to opening the expected error dialog window, a spinning stopwatch sometimes appeared on the screen that would not go away until another product was loaded, and a zombie *textdb* process was created. Now, the user needs to simply acknowledge the error dialog and continue working. **(DRs 11160, 12597)**
- Multiple entries are now displayed, if applicable, in a text window browser for an AWIPS ID request. Previously, only one entry was displayed when the AWIPS ID was used to retrieve the latest products, even if several entries matched the requested ID. **(DR 11322)**
- The text window now always correctly displays the BBB field of a product. Previously, the BBB field was only displayed if there were duplicates of the product in the text database. **(DR 11323)**
- The text window now allows for a WMO TTAAii of four to six characters. Previously, the window required IDs of six characters. **(DR 11325)**
- It is possible to make the text window launched from the Tools menu of a D2D too large to fit on the screen by resizing the text window and changing to the large font. If this happens, the top and bottom of the text window may run off the screen and no longer be displayed. The resolution to this problem is to simply press and hold mouse button two on the left or right edge of the window, and move the entire window so that the menu is again displayed on the screen. **(DR 12607)**
- The Text Proximity Alarm now works consistently. Previously, the *textPAWish* process sometimes spawned defunct processes while it executed, causing the functionality to stop working until the user logged out and back in to the workstation. **(DR 13105)**
- The text workstation text editor no longer pops up an ID choice window unnecessarily. Previously, when using the text editor, a window popped up stating "WMO ID maps to multiple AFOS IDs; please select an AFOS ID". The editor was simply querying the user to make sure the intended AFOS ID was being used, but users found this to be cumbersome and ripe for causing user error. Thus, a patch submitted by Paul Jendrowski was integrated into the baseline to eliminate this query window. Now, when the user is working with the AFOS ID in the text editor window, this query window does not appear. However, this does not change the behavior of when the WMO ID portion of the header block is modified. In that case, the "which ID?" query window still appears if there are duplicate possibilities. **(DR 13296)**

1.19 Upper Air

- The MDCRS 1 and 6 Hour Availability Plots did not display the plus marks on the HP

workstation, but they are displayed on the Linux workstation, so this is no longer a problem. (DR 12726)

1.20 Volume Browser/Grid Products

- There are no longer discrepancies between the 6hr and 24hr MesoEta precip plots ending at the same time. (DR 1328)
- There are no longer problems with the temporal resolution of displayed AVN 500mb Comparison products. Previously, at some scales the data displayed at 3 hour intervals, and at other scales 6 hour intervals were displayed. Now, all products are displayed at 6 hour intervals. (DR 4266)
- AWIPS now uses the true wind values rather than the smoothed wind values to calculate environmental wind shear values such as the Bulk Shear and the Wind Shear. Previously, the use of the smoothed wind sometimes lead to underestimated values for the wind shear. The smoothed wind is now used only for the Bulk Richardson Number calculation. (DR 13080)

1.21 Warning Generation (WarnGen)

- WarnGen no longer lists independent VA cities as counties in some products. (DR 1394)
- WarnGen now works correctly for all long-fuse warnings at PHI. (DR 1458)
- Inconsistencies in the WarnGen areas at RNK have been corrected. (DR 3591)
- A limit has been set on the number of versions of products WarnGen processes on startup. Previously, on initial launch WarnGen processed all warning products in the database so it knew which had not been canceled and thus could be followed-up/reissued/displayed. However, if there were an excessive number of products in the database to be processed, WarnGen took a long time to launch on the initial launch, taking up to four minutes in some cases. Thus, a sanity check has been implemented to limit the number of versions of warning products initially processed so that WarnGen launches quickly. (DR 13209)

2.0 INTERACTIVE FORECAST PREPARATION SYSTEM (IFPS)/WATCH WARNING ADVISORY(WWA)

- It is now possible to deselect products in the WWA GeoViewer. Previously, the only way to deselect a product that had been selected in the WWA GeoViewer was to go into the WWA Monitor and deselect the product there. (DR 11153)

- Non-segmented products created in the WWA composer are now formatted with the \$\$ automatically included at the end of the text in the product. **(DR 12004)**
- The NWR program no longer produces blank Summary messages. **(DR 12523)**
- The icwf_site.ccc file is no longer used by any AWIPS applications and has been removed from the \$IFPS_DATA directory within the AWIPS baseline. **(DR 12543)**
- The VTEC shared file lock is now unique for product types, not WWA sessions. Previously, WWA prevented users from having more than one transmit window open at one time, anywhere on the network (i.e., any WWA). Now, WWA only locks out like products, rather than any product open in a transmit window. **(DR 12741)**
- Operational headline editing is now supported for non-segmented products. **(DR 12777)**
- In the WWAAdmin, the Identifier for the HWO product now shows "HWO" for all follow-up actions. Previously, the item "HWO" was missing from the associated internal list of items in WWAAdmin, and this caused the field to come up blank in the GUI. Note: If an "Identifier" value is missing from the associated list in WWAAdmin, the correct value can now be set using WWA Setup. Even though this value may be set to the correct value that the user wants in the database, if it is missing in the WWAAdmin pull-down list, the associated GUI field will be blank in WWAAdmin. **(DR 13055)**
- Extra lines are no longer added to the Recommendation Condition Window text. Previously, when the "Recommendation Condition" panel was generated a second time, the text in the "Threshold Equation" box had a carriage return at the end of it. **(DR 13135)**
- The RFW template in WWA is now segmented. **(DR 13151)**
- The UGC is now correct when following up a non-segmented product and expanding the area and extending the time of the product. **(DR 13161)**
- When your site receives a hazard from an adjacent site which is valid for one or more of your radio towers, WWA now correctly generates only one NWR message per tower. Previously, the WWA NWR formatter generated two products for each tower in this situation. **(DR 13194)**
- Extra counties and zones are no longer included in WWA fire weather followup products. Previously, at sites where the number of fire weather zones exceeds the number of zones or counties, followups of fire weather products included extra counties and zones not intended to be included by the user. **(DR 13196)**
- Practice mode no longer uses intersite coordination. In OB2, practice mode erroneously sent practice products to adjacent sites. **(DR 13234)**

- It is now possible to cancel a Followup or Clear on a product and then come back and issue a Followup or Clear on the same product. Previously, if the user started to transmit a Followup or Clear on a product, and then selected No to cancel the operation, but then came back a second time to transmit the Followup or Clear after making changes, the transmit failed with an error stating "Followup/Clear need previously issued product". **(DR 13249)**
- The WWA Xmit interface has been converted to Tcl/Tk. A new WWA Transit window has been created. **(DR 13254)**
- The WWA NWR formatter now consistently formats WarnGen products for transmission successfully. Previously, the formatter occasionally failed to format the products successfully. **(DR 13259)**
- WWA no longer crashes when the Composer is opened or when different hazards are selected from the menu. Previously, these operations infrequently caused WWA to crash. **(DR 13274)**

3.0 HYDROLOGY

3.1 HydroBase

- A few problems with the HydroBase rating curve window display and crest history display have been fixed. **(DR 12841)**
 - 1) When the Rating Curve window is opened, the "Remove Shift" button is no longer displayed as active if there are no shifts to remove.
 - 2) The values in the Active Rating Curve including Shift section can no longer be highlighted.
 - 3) In the Crest History window, when crests are sorted by flow, the graphical display of crest history is displayed correctly even when the first stage value is missing.

3.2 HydroMap/Multisensor Precipitation Estimate (MPE)

- The problem where MPE time lapse uses a large amount of CPU time is mainly only a problem on the HP workstations. CPU usage is less severe in this situation on the Linux workstations. Thus, no fix is necessary for this problem. **(DR 11026)**
- The MPE application has been replaced by Hydroview/MPE, and thus the menu item for MPE has been removed from the D2D menu, the HP pulldown menus, and the Linux Start menu. **(DR 12099)**

3.3 National Weather Service River Forecast System (NWSRFS)

- The problem in RFCWide where the Find feature in the Help windows does not work is no longer an issue, as the RFCWide program has been retired. **(DR 7689)**

3.4 RiverPro

- In the Linux version of RiverPro, the rows of radio buttons in the Modify Product Settings window now line up properly with the choices at the left of the rows. **(DR 11460, formerly part of DR 10546)**
- The problem in RiverPro where the GMT location time zone does not work is not going to be fixed. The problem only occurs when the time zone is set to GMT, and since there are no sites in AWIPS located in the GMT time zone, this problem does not affect any operational sites. **(DR 11652, formerly part of DR 11362)**
- The RiverPro VTEC begin and end times do not automatically update when the user modifies the Action code, i.e., there is no automatic cross-VTEC field validation. Instead, a “check” button has been added, so that when the user makes any VTEC field edits, the “check” button can be used to check for certain inconsistencies. **(DR 12580)**

3.5 WHFS

- The fact that the *readenv.sh* script produces a message in terminal windows when called by WHFS scripts is no longer an issue, as it only occurred on the HP workstations. **(DR 10363)**
- The Thresholds for Recomm: radio button has been changed to a check box so that now it always changes correctly when selected. Also, logging information for the process has been consolidated from two logs to one, and now logs to the process_geoline <PARAMETER>.log file, and also appears in the HydroBase information window. **(DR 12460)**
- It is no longer possible to edit the point number and pair number when editing cross section pairs. This prevents the problem where Damcat failed when choosing duplicate values when editing cross section pairs. **(DR 12561)**

4.0 LOCAL DATA ACQUISITION AND DISSEMINATION (LDAD)

4.1 Configuration/System

- Only one "Thank You" message now appears when modifying LDAD config files through Netscape . **(DR 5323)**

- The *routerStoreNetcdf* and *routerLdadDecoder* processes no longer crash when they receive incorrect data. These decoders expect to receive serialized data, but a situation occurred where site edits of configuration files resulted in non-serialized data being sent to the decoders. The decoders now identify this data as incorrect and move on to the next data successfully, rather than crashing on the incorrect data as happened previously. **(DRs 8581, 9719)**
- Some LDAD servers are not able to use *ntpd* to keep time in sync. At several sites, the network time protocol daemon on LS1 fails to connect to the firewall's *ntpd*. This means that the time on the LS does not keep in synch with the time on the rest of the AWIPS system and the NCF. To remedy this, occasionally (every few months), check to see if the time on the LS is in synch with AS1. If it is not, use the **date** command to set the time equal to that of AS1. Alternatively, configure the LS to receive the time from the local router. In the */etc/ntp.conf* file, set the preferred time server to be the local router IP. **(DR 10035)**
- It is now possible to put the *suaReceiver* process in debug mode. In this mode, the log records all of the data coming into the input buffer. To put the *suaReceiver* in debug mode, uncomment the following line in the *ls1:/ldad/.logPref* file:
#suaReceiver all file debug = on
Then stop and start the LDAD processes. **(DR 11135)**

4.2 Emergency Manager Decision Support (EMDS - Web Dissemination)

- When installing EMDS on a PC, the installation welcome window that appears first no longer has overwritten text. **(DR 8818)**

4.3 Fax

- The LDAD Fax Message Recipient line no longer overwrites the Company field. The cover sheet has been reformatted so that the Recipient and Company fields are on different lines. Previously, when the fields were on the same line on the fax cover sheet, if the Recipient name was too long, it overwrote the Company field. **(DR 4125)**
- The Netscape help page for LDAD fax can now be launched successfully from any of the fax help menus, and is now up-to-date as well. **(DR 4203)**
- The Configure Autofax GUI now displays successfully on the Linux text workstation. **(DR 12693)**

4.4 Ingest and Display

- LDAD FTP collection now works for other locations besides the user's home directory on the remote system. Previously, LDAD could only collect data from the home directory on the remote system. **(DR 4163)**
- Problems that caused primarily co-located microArt systems to sometimes fail to deliver products to the local LDAD have been fixed. **(DRs 8915, 10949)**
- Multiple dial-out requests now always execute successfully. Previously, some multiple dial-out requests sometimes executed successfully only on the first dial-out, and then did nothing further. **(DR 10590)**
- LDAD is now able to successfully process as many products as are waiting to be processed in the /data/Incoming directory at any given time. Previously, LDAD could only process up to 10 products from /data/Incoming at any one time. The rest of the products were erroneously moved to the /data/ldad/Processed directory without actually being processed. **(DR 13182)**

4.5 Scheduler

- The fact that no sample Kermit collection or dissemination session templates are provided with the AWIPS baseline is no longer a problem, as the Kermit protocol is no longer supported for use in the Scheduler. **(DR 4147)**
- The fact that the test Kermit, Xmodem, Ymodem, and Zmodem files that are provided with the AWIPS baseline do not work is no longer a problem, as these protocols are no longer supported for use in the Scheduler. **(DR 4167)**
- The fact that users with a protocol of Kermit, Xmodem, or Ymodem sometimes appear to change from their respective protocols to Zmodem after a Zmodem user has logged into the BBS is no longer a problem, as these protocols are no longer supported for use in the Scheduler. **(DR 4237)**
- The fact that the collection of files using Xmodem, Ymodem, and Zmodem protocols places extraneous characters in the files is no longer a problem, as these protocols are no longer supported for use in the Scheduler. **(DR 5162)**
- In the Edit Request GUI in the LDAD Scheduler, a number is no longer needed in the duration box to select 'indefinitely.' Previously, when attempting to set up a request to dial out indefinitely, a number had to be entered in the duration box even though 'indefinitely' had been selected. **(DR 12945)**

5.0 SYSTEM

5.1 Archive Server

- Rapidly selecting items from lists in the Select Dates to Store GUI or the Make CD or DVD GUI no longer generates an error message. **(DR 12054)**
- The Archiver now displays a pop-up window that provides a time estimate and progress report while burning CDs and DVDs. The initial time estimate is based on the size of the disc image and the writing speed. Later estimates are based on the output of the *cdrecordDVD* process. **(DR 12057)**

5.2 Asynchronous Product Scheduler (APS)

- Products missing the WMO header no longer cause a queue backup in the *asynchScheduler*. **(DR 9180)**

5.3 Failover/Reboot

- There are no longer performance problems with the SCAN/Storm Cell Track when the DS swap package is failed over to DS2. **(DR 6082)**
- The fact that the *EndAll reboot* script does not reboot the Linux workstations and servers is as designed. The reboot script was written before any Linux machines were a part of the AWIPS system, and thus was not designed to include them. Continue to reboot these machines manually when performing a site system reboot. **(DR 9312)**
- It is as designed that the product send message seen below sometimes appears in the *dsswap.control.log* file. This message is only seen in the log when LDAD starts external processes. **(DR 12606)**
Warning: some problems were encountered while sending the product.
Check the log for details.
- The */pxdata* directory is now successfully exported every time when failing over the *pxapps* packages. Previously, in specific situations involving PX failovers and then reboots, the */pxdata* directory failed to be exported after failover. **(DR 12706)**
- The user (*fxa*, *awipsusr*, *textdemo*, etc...) environments are now automatically updated on the Linux workstations after a DS failback to DS1. **(DR 12732)**
- The PXs no longer reboot twice when rebooted. **(DR 12769)**
- The *exportfs* command in the PX failover scripts now uses the DS floater, rather than DS1. **(DR 12810)**

- The *PX_FMK.sh* script no longer prompts the user to answer questions when run with the *check_mounts* option. Previously, the script sometimes hung in this situation because it prompted the user, but the user could not respond because it was being run from a script. **(DR 12884)**
- Automatic failovers of the PXs once again complete successfully. Previously, *px1apps* and *px2apps* were not updated to kill processes in the */awips/hydro* and */awips/GFESuite* directories when they were added to the PXs. These processes could be killed manually during manual failovers, but their presence caused automatic failovers to fail. **(DR 13065)**
- A "RadarNotify only runs on lx1" error no longer appears during a reboot of a Linux workstation. **(DR 13111)**
- The *px2apps* script no longer references PX3 and PX4 at non-multiple domain sites. **(DR 13164)**

5.4 General

- Elm no longer fails to run due to problems caused by the mail cleanup script. **(DR 6216)**
- The GCC compiler now works. **(DR 8260)**
- The */home* and */dsdata* directories no longer become mounted multiple times on the PXs. **(DR 11907)**
- *rexec (/etc/xinetd.d/rexec)* is now enabled on all of the Linux machines. **(DR 12787)**
- The *games*, *gopher*, and *users* groups were removed from */etc/group* on the CPs and PXs to resolve the problem where the group ID for users (*/etc/group*) was different from the default NIS users group ID on Linux (*ypcat* group). **(DR 12829)**
- A usage message associated with the */sbin/init.d/sshd* startup script for *openssh* no longer appears in the boot log on HP. **(DR 12878)**
- The permissions on the */awips/fxa*, */awips/fxa/awipsusr*, and */awips/fxa/textdemo* directories on the Linux workstations are now correctly set to 775, rather than 755. **(DR 12910)**
- Shutting down a PX cluster no longer disables networking. **(DR 12915)**
- The */etc/issue* file on the PXs and CPs has been changed to the standard AWIPS "****WARNING****" message. **(DR 13023)**

- The RAID utility to monitor RAID has been installed on the CPs. **(DR 13038)**
- The `/awips/adapt` and `/data/adapt` directories are no longer included in the `/etc/fstab` file on the PXs at the RFCs. Since these directories do not exist at these sites, the presence of these directories in the `fstab` file caused errors in the `pxapps`' start up. **(DR 13239)**
- The VM parameters on the PXs have been modified to correct slowdowns in the operation of those servers, and of applications that access them such as IFPS/GFE, that have been observed at some sites. **(DRs 13692, 13830)**

5.5 Localization/Installation

- Procedures no longer disappear from the D2D procedure menu after an install. **(DR 10808)**
- The `/awips/fxa/data/wmoSiteInfo.txt` file is no longer missing from the Linux workstations. The file is copied to all the Linux machines except for the AXs and CPs by the install scripts. **(DR 12705)**
- The `Setup_datafxa.sh` script now correctly creates radar and LAPS links to `/data/fxa_local` instead of `/dsdata`. **(DR 12886)**
- The `mainScript.csh -station` localization no longer hangs when the input files have incorrectly formatted entries or 0 Lat/Lon entries. **(DR 13172)**
- The OB3 install script `prepare_OB3` does some cleanup for the root `.rhosts` files. All saved off versions of the root `.rhosts` files from previous installs and upgrades are removed from all hosts, and the entries for the Linux workstations in the `.rhosts` files on the HP servers are removed due to a security issue. **(DR 13393)**

5.6 Printing

- Infrequently, the printer daemon on a particular workstation may hang. This results in all subsequent print jobs being queued and not sent to the printer. The resolution is to restart the printer daemon on the affected workstation by executing `/etc/init.d/lpd restart` on the workstation. All queued products will then be sent to the printer. **(DR 13596)**

5.7 Product/Process/System Monitoring

- The default Netscape preferences have been modified so that `.doc` files, which are used for much of the documentation on AWIPS, can be read as text files, and are not automatically interpreted as MS Word files by Netscape. **(DR 4213)**
- The process summary page on the Netscape monitor now consistently displays the most

recent updates from the servers. Previously, one of the updates from a server was occasionally missing. **(DR 4496)**

- Netscape has been updated to monitor the full range of acquired grid data. **(DR 5040)**
- Netscape now monitors the *process_dpafiles* process at WFOs. It is present under the Radar section in the bottom frame of the Netscape product monitor page. **(DR 5087)**
- The monitor scripts *startCtrlCpu.sh* and *xx_startProcMon.sh* now properly maintain the correct number of running processes on Linux. Previously, these scripts often ended up starting multiple instances of the monitoring processes. **(DR 7459)**
- Netscape now monitors the *AircraftDecoder* and *BufrDriver* processes. **(DR 11448)**
- The NDFD and IFPS Service Backup Configuration web sites are now listed on the Netscape monitoring page. **(DR 12720)**
- Some site-specific bookmarks may be missing from the Netscape bookmarks after the OB3 installation. Any such missing bookmarks must be reset manually on-site. Refer to the OB2 bookmarks file in the .netscape directory for awipsusr and textdemo for assistance. The backed up file from OB2 is called bookmarks.html.old. **(DR 13701)**

5.8 Radar System

- The *RadarServer* is designed to read the configuration files *portInfo.txt* and *wmoSiteInfo.txt* only when it is started. It cannot accept additions or deletions to these files “on the fly”; it must be restarted to incorporate the changes. **(DR 5621)**
- The method by which the *wfoApi* process exits has been modified so that it exits cleanly when error conditions are encountered. Previously, the process was sometimes unable to exit cleanly when an error condition was encountered, resulting in the process hanging and consuming high CPU time. **(DRs 7801, 11653)**
- AWIPS has always functioned such that, when dialing out for radar data, if a radar product is not available for the requested elevation, the nearest available elevation product is returned by the dialed radar. For example, if a user requests a velocity product from a dial site at the 5.3 level and that level is not available, the 6.0 elevation will be provided if it is available. However, previously there was no notification to the user indicating that this was happening. Now, when such a situation occurs, the following is seen in the Radar Status Bar: **(DR 10914)**
03/08/26 13:32:15: R klwx: Request for product 1 sent successfully
03/08/26 13:32:15: S klwx: V 5.30 is not available, 6.00 is coming...
03/08/26 13:32:16: S klwx: V OTA 1323 1.00 6.00
- The *dialRadar* process no longer hangs and uses high CPU when it fails to dial or

disconnect cleanly. Now, if dialRadar has any problems dialing out, instead of retrying, it cleans up and exits. **(DR 11300, formerly DRs 6071, 9254)**

- The *RadarServer* no longer sends the wrong local RPS list if the maintenance RPS list is missing. **(DR 12719)**
- The One-Time Request for the CFC(34) radar product, run every 6 hours by a cron job on DS1, is now successfully sent out. **(DR 12861)**

5.9 System Process/Log

- Certain WarnGen products no longer produce a PROBLEM message in the *warnGenWish* log when Create Text is selected. Previously, various statements and advisories produced the following message in the log:
warnGenWish 16826 963596313.341968 17:38:33.341 PROBLEM: sendProduct(): GetCharstcsList() failed with 100 !
However, this message did not prevent the product from being transmitted successfully. **(DR 5956)**
- The timeout period for a child *acqserver* process has been increased from 30 minutes to six hours. This resolves the problem where the *acqserver* child process that listens for high priority WAN products sometimes timed out and resulted in the loss of a few products. It also eases log troubleshooting by reducing the number of *acqserver* logs present in /data/logs/fxa/<current date>. **(DR 6487)**
- The *distributeProduct* log is now created with 666 permissions, rather than 664, so that all users can now write to it. Products were always transmitted successfully despite this problem, but now the transmission will always be successfully recorded in the log. **(DR 10151)**
- The *routerShefEncoder* and *routerStoreNetcdf* processes no longer use high CPU on DS1 when they are processing data. **(DR 11669)**
- The *stopIngest.ds1* script for OCONUS no longer has entries for processes that do not run at OCONUS sites. **(DR 11921)**
- The *startAcarsProfiles.sh* script is no longer present in the fxa cron on PX1. Previously, it was present in the fxa cron on both PX1 and PX2, even though it only runs on PX2. **(DR 12592)**
- The *sendPing* process now uses collective logging, so that all *sendPing* messages are collectively logged to one log each day, rather than creating a new log file for each log instance. **(DR 12675)**

- The root cron on the Linux workstations is now able to remove core files from subdirectories. **(DR 12828)**
- The *CollDBDecoder* now consistently processes the IJMMANKJP product successfully. Previously, the process sometimes hung while trying to process the product. **(DR 12882)**
- The *hmIngest* process no longer logs excessively. Previously, large numbers of DEBUG messages were written to the log, but these messages were not needed for operational use and have been removed. **(DR 12912)**
- The LAMP MOS logs no longer record the following error multiple times:
GridKeyServer: Cant use vrtgph as level mode in gridPlaneTable
However, this error was not believed to cause any operational problems, as the 48 NGM MOS Bufr messages needed by LAMP were extracted successfully, and LAMP ran. **(DR 12961)**
- The 54hr and 66hr forecast times for the TPC Hurricane Wind Model are now ingested and processed successfully. **(DR 13076)**
- The acqserver timeout has been increased from 1800 seconds (30 minutes) to 21600 seconds (6 hours). This reduces the number of acqserver logs that are created each day, and avoids socket error problems that sometimes caused the loss of a product when the process timed out and restarted. **(DR 13112)**

6.0 OCONUS

- The Product Maker no longer distorts satellite images at some OCONUS sites. **(DR 2263)**
- The problem where vertical speed shear was not decoded in the AVN 225 grids is no longer a problem. This parameter is not output in the 225 grid, but it is output in the 201 grid, where it is received and processed successfully. **(DR 6527)**
- Alaska sites no longer have trouble creating text when numerous zones/counties are selected in WWA. Previously, WWA locked up in these situations, but now it is possible to select the entire CWA and the product is still transmitted successfully. **(DR 11310)**