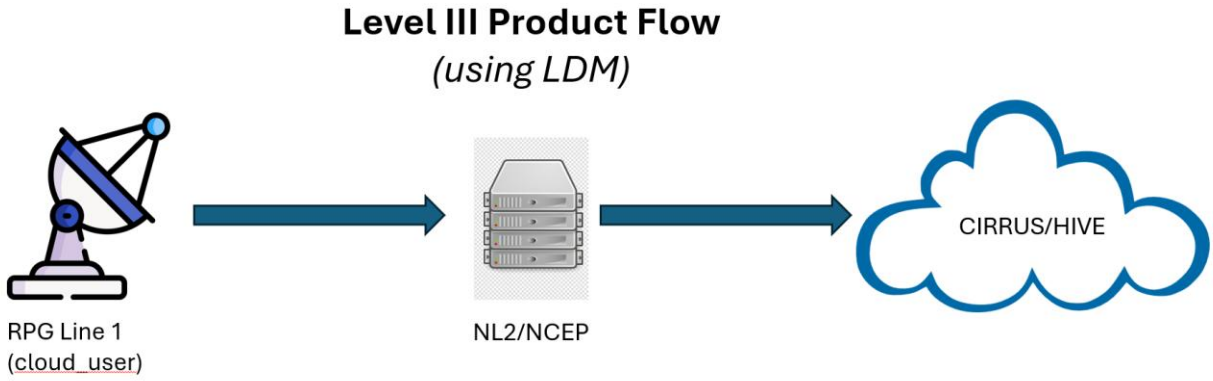
RELEASE NOTES – RPG Software Update 24.3

This page lists the enhancement and change information occurring with the Weather Surveillance Radar, 1988 Doppler (WSR-88D) Software Update 24.3 for the Radar Product Generator (RPG) subsystem. The Radar Data Acquisition (RDA) subsystem will remain on Software Update 24.2. All issues found during formal testing that were operationally impactful were addressed and fixed; however, a couple items with acceptable workarounds will be discussed. All issues related to previous software updates (24.1 or 24.2) and the parent build (Build 24.0) that are still outstanding can be referenced in those respective release notes.

This is a living document. The latest version of this document is hosted on the ROC public webpage under Documents/Release Notes at: https://www.roc.noaa.gov/branches/operations-branch/release-notes.php. Contact the NEXRAD Hotline (nexrad.hotline@noaa.gov) with any questions.

RPG Software Update 24.3 Enhancement/Changes:

- National Level II (NL2) connects to the RPG on Line 1 to request Level III products.
  - These products are then requested by two NCEP servers
  - The cloud user (CIRRUS) can then request those products from the NCEP servers



- Bug fix for Authentication Error locking up the CAC login screen

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MAINTENANCE-RELATED ISSUES

CAC Authentication Error at Login Screen Causes Lockup

Problem: In rare instances, when the Authentication Error occurs at the CAC login screen, there can be a flood of the messages in the error log that cause the lockup versus just one. The fix in Software Update 24.2 assumed just one error log message, so when a flood of this message occurs, the lockup can still occur causing a site to reboot the machine to recover. Software Update 24.3 includes fixing the issue for a flood of messages as well, BUT since Software Update 24.3 is for the RPG/MSCF only, the RDA is still susceptible to the flood of messages bug.

Workaround: Since the lockup at the RDA will likely only manifest when a technician is on-site to troubleshoot another issue or perform maintenance, needing to reboot to recover is considered an acceptable workaround until the fix applied in Software Update 24.3 for the RPG/MSCF is applied to the RDA in Build 25.0.

Technical Manual (EHB 6-520) Reloads Need Second MRPG GUI Restart

Problem: If a site needs to reload Software Update 24.3 on an RPG processor because of corrupted software, or load it on a replacement RPG, the initial startup of the RPG software after loading Build 24.0, then Software Update 24.3, and any other overlays results in:

- cloud_user not connecting on Line 1
- Lines 29, 41-44 not having an updated baud rate from 200K to 500K for FAA/DoD sites

Workaround: To correct these issues, doing a second MRPG GUI restart of the software corrects these issues. This stems from how these adaptation data updates were implemented in the software updates because we do not rebuild adaptation data updates in software updates.