

# DHM – AWIPS OB 8.1

Requirements/Design Review

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# DHM – AWIPS OB 8.1

- No major enhancements
  - No requirements from OSIP CONOPS added
  - Updates to OB7.2 DHM – based on internal discussions
    - Standardize approach to determining RFC boundaries
    - Refactor DHM Java code to conform to OHD standards

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Standardize approach to determine RFC boundary

- DHM needs HRAP coordinates of RFC's lower-left and upper right corner for grid I/O
- In OB7.2, DHM had it's own copy of this information in a file
- Prior to OB7.2 RFC's HRAP boundaries were already available at each RFC in a file located using Apps\_defaults variables:
  - geo\_data and
  - Token identifying rfc (e.g. st3\_rfc and ifp\_rfc)

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Standardize approach to determine RFC boundary

- Solution
  - Change DHM to retrieve rfc boundaries using existing rfc file
- Benefits
  - Standardize OHD approach to determining RFC boundaries (OHD-Common Software, NWSRFS already use this file)
  - During localization the file is already used to create DHM netCdf templates for D2D grids
    - D2D template describing RFC boundaries matches DHM's RFC boundaries

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Refactor DHM Java code to fit OHD standards

- OHD is in the process of identifying standards for its Java code
- Solution
  - Use standard packaging scheme (ohd.hseb)
  - Use OHD java coding conventions
    - Comment template
    - Use “\_” for class variables
    - etc..
- Benefits
  - More standard “look” to OHD Java code
  - Help future maintenance and enhancement of code