

Conference Call (8/03/2006) Development Update Discussion Items

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1. Rating Retrieval Software (Beta Release)

- a. Beta installed at the following sites
 - i. LMRFC
 - ii. NCRFC
 - iii. OHRFC
 - iv. CBRFC
- b. Other sites may install current release of retrieval software or wait for the next beta release. If interested please email me (dan.pokorny@noaa.gov). Instructions are available. I will also assist you through the install.
- c. Current release has some known bugs:
 - i. A subset of rating curves are not selected when creating the rating list.
 - ii. USGS URL was hard coded in software.
 - iii. Please email suspected bugs to (dan.pokorny@noaa.gov)
 - iv. Known bugs will be fixed in next beta release.

2. OFS Rating Curves

- a. Business Logic
 - i. OFS follows the same retrieval and archiving logic as other resources (USGS). Rating List is generated from OFS query, rating curves are retrieved from OFS, parsed, and stored on the file system.
 - ii. Parse OFS rating curve cards and convert to XML file.
 - iii. Changes can be made to XML file and validated through a schema if necessary. This opens up an application friendly way to manage and validate rating curves without having to write parsers and formatters.
 - iv. Changed XML rating curve file is converted to card format and sent to OFS.
 - v. OFS XML rating curves are validated against the OFS record. If differences are found, rating curve becomes pending and notification is sent.
 - vi. Rating curve is versioned once the change has been acknowledged.
 - vii. Acknowledgements are logged.

3. Current Development

- i. Currently working on OFS integration. Hope to have this done by the end of the month for beta release.
- ii. Also working on core GUI design and functions.

4. GUI Development

- a. Status
 - i. Core GUI functions are being developed.
 - ii. See `rcurve_gui.png` for functional component.
 1. Left side explorer tree
 - a. elements will be right clickable with pop-up button
 - b. elements can be dragged and dropped.
 2. Left side property window

- a. Displays element properties without double clicking.
- 3. Right side canvas
 - a. Displays element that was dropped on canvas.
 - b. if element is the same type of object (two rating curves), then they can be overlaid or a new window created.
 - c. Can be spreadsheet and/or graphical representation of the element.
 - d. This window will be tabbed to allow more than one canvas.
- 4. Right side property window.
 - a. Displays the properties of the element that has focus. Example, this window contains the meta data and stage-discharge values that is being graphically displayed on the right side canvas.
- 5. Supporting Widgets.
 - a. Supporting widgets (Menu bar, etc) will be added.

- b. Architecture
 - i. Java Swing.

5. Project Plan

- a. Beta Release 0.2 (Sept 2006)
 - i. Fix bugs in current beta release.
 - ii. Implement core OFS functionality.
 - 1. Retrieval
 - a. OFS Card-> XML
 - 2. Send (Save)
 - a. XML -> OFS Card
 - iii. GUI sneak peek – Request for Comments.
- b. Beta Release 0.3 (Nov 2006 or sooner)
 - i. Core GUI Functionality (User Testing)
 - ii. Archive Implementation
- c. Beta Release 0.4 (Based on user testing Modifications)
 - i. Release of GUI with functional requirements.
 - ii. AWIPS standardization (Final release configuration).
- d. Full Production Release 1.0
 - i. Standard AWIPS release.