Phil Weinstein / Accomplishments (Sponsor Tasks) – February 2017 -- 3-03-2017

[I.A] New/Enhanced Software
   Truckee Task 1.7: Multiple Run Histories in Model Info dialog (RW 7.1)

The RiverWare 7.1 "Model Info" dialog now presents information about a designated number of recent runs is presented. This includes the following pieces of information:

1. The RiverWare version used for the run.
2. The user name of the user logged to for that RiverWare session.
3. The selected controller of the run (e.g. "Simulation" or "Rulebased Simulation")
4. Run Start time (time and date)
5. Run Duration (amount of time)
6. Run Status (e.g. "Finished", "Aborted", "Stopped").

The user can configure the number of recent run histories presented and saved in the model file, and can clear the run history. The Model Info dialog supports also a *"Clear Run History"* operation, and a *"Copy selected items"* context menu operation which copies the content of the selected items to the system clipboard.

Additionally, the following changes were made to the Model Info dialog:

1. The Comment editor has been simplified. Edits to the comment text are now immediately applied. The OK, Apply, Reset and Cancel buttons have all been replaced with just a "Close" button. Those operations were essentially redundant with the comment editor window's support for "Undo" and "Redo" context *(right-click)* menu operations.
2. The "Save History" list has been changed to single line, as information for only the last save operation had been presented. This text can be selected and copied to the system clipboard.

This work is described further in this document:

- Truckee 1.7: Run History in Model Info Dialog for RiverWare 7.1
  R:\doc\RunHistory\2017\Truckee1p7-RunHistInModelInfoDlg.docx

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[I.A] New/Enhanced Software
   COE SWD Task 6: Plotting: User Defined Axis Units (RW 7.1)

Plots in RiverWare 7.0 and prior versions have the following related limitations.

1. Only slots having *exactly* the same *scale and units* ("scaled unit") can be plotted along a particular axis.
2. Slots having the same unit type (e.g. flow) *but different scaled units* (e.g. <u>cfs</u> or <u>1000 acre-feet/month</u>) are plotted along distinct axes. For series slots, that is always the left or right vertical

axes. Strangely, the graphical scales of opposing axes having the same unit type are unrelated. No other series slots having a third distinct scaled unit can be added to the plot.

3. The scaled units of plot axes cannot be changed by the user.

The following new provisions have been added for RiverWare 7.1 to address those limitations.

1. Each axis is now associated with a particular *unit type* (e.g. flow) rather than being limited to an exact scaled unit.
2. The user can switch the scaled units associated with an axis between:
   a. the scaled units of the *first slot* assigned to the axis,
   b. user-specified scaled units (among the units supported for the axis' unit type).

Additionally, the following capabilities which had effectively been lost in RiverWare 7.0 with the plot dialog redesign (separate editor and viewer dialogs, and the elimination of the old plot page configuration dialog) have been added to plot dialogs.

3. *Paste Slots* from the slot clipboard. Slot curves are added to the plot as long as axes having the slot curves' unit types are available.
4. *Copy Slots* to the slot clipboard. This also copies the *names* of the plot's slots to the *system* clipboard.

The Paste Slots operation is available only in Plot Page *Editor* dialogs. The Copy Slots operation is available also in Plot Page *Viewer* dialogs.

This work is described further in this document:

- USACE SWD Task 6: Plotting: User Defined Axis Units, for RiverWare 7.1 R:\doc\plotting\2017\CoeSwd6-UserPlotAxisUnits.docx

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[I.A] New/Enhanced Software
  COE SWD Task 9: Plotting: Editing Multiple Curves and Graphs (RW 7.1)

In February 2017, substantial development was done for a new plot configuration dialog which allows the user to adjust settings for many features within the multiple plots within a plot page. The new "Configure Multiple Plots and Curves" dialog presents a list of Plots, Curves and Markers. Various settings can be applied to multiple selected items. Supported settings include plot background color, plot grid and axis configuration, line styles, widths, colors, and symbol styles sizes, and colors. Development is being completed in early March 2017.

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