

Phil Weinstein / Maintenance Accomplishments -- January 2017 – 1-06-2017

[I.B] New/Enhanced Software
Unfunded Software Development
Simplification of the treatment of the SCT's "Default" font

The SCT configuration supports three font choices: "Default", "Font A", and "Font B". The latter two are user configurable fonts retained within the SCT configuration. The effective font used in the Default case had previously depended on the workspace font *at the time the SCT was created*. Now, in RiverWare 7.1, the Default font selection is the font currently in use in the Workspace; changes to the Workspace font are immediately propagated to the SCT. (The Workspace font is set from the Workspace menubar: Utilities >> Windows >> "Set Font...", and, as currently implemented, applies to only the current RiverWare session).

This change is described further in this document:

- SCT Default Font Simplification in RiverWare 7.1
R:\doc\sct\2017\Fonts\SctDefaultFontRedesign-Jan2017.docx

[I.B] New/Enhanced Software
Unfunded Software Development
Significant size reduction of generated image files

In the course of providing an option to generate RiverWare Model Report HTML files *with all images embedded* (see COE SWD 5, part C), it was discovered that the image files we were generating for model reports -- and also for frame images for the new chart animation video file generation feature -- were much larger than they needed to be (*e.g. by a factor of 30*). This often resulted in Model Report files (either with embedded images, or image files bundled with the HTML file) too large to attach to an e-mail message or convey in some other way. This has been fixed for images generated from RiverWare graphics (e.g. plots, charts, RPL code) in RiverWare 7.0.2 and 7.1 development.

For chart animation video file generation, this frame image file size reduction doesn't seem to reduce the size of the generated video file. But the size reduction should improve *the performance of the video file generation process*, as image files for every frame of the video needs to be written out to the hard disk; those image files are now significantly smaller than they had been.

Note: This optimization was not applied to Model Report *Image items* (originally created by loading an external image file) when generating Model Reports with external image files (rather than using the new "embedded" image capability). Instead of just recreating the image file with the captured image file data, the image file is regenerated using the old algorithm *without compression*. Such image files are still unnecessarily large -- larger than the original image file from which the Model Report Image item had been created. This could be addressed in the future.

[II] RiverWare Software Maintenance / Software Updates / Bug Fixes

The following ten (10) bugs were fixed:

- 5856: On the Table Slot dialog, column deletion created a blank column.
- 5871: SCT pre-run divider is incorrect when run aborts.
- 5877: SCT display issues when cutting (removing) a slot.
- 5880: Printed SCT has extra partial rows printed
- 5884: Object Account Summary was not showing columns correctly when accounts were removed.
- 5890: Right click in empty Model Report layout causes crash.
- 5891: Deleting column on custom table slot loses column labels
- 5900: RiverWare shifts marker X-position back 1 day when editing
- 5902: Plot Pages created in Output Manager not saved in model file
- 5903: Scripts, Set Table Slot Value Script Action not correctly setting values with DateTime unit type.

Additionally, analysis was done on the following bug:

- 5901: Marker Label does not display unless a Line Style is selected.

[II] RiverWare Software Maintenance / Maintenance Reporting

CADSWES maintenance accomplishments during FY 2016 (October 2015 through September 2016) are described in this document:

- CADSWES FY 2016 Annual Maintenance Accomplishments
R:\doc\Accomplishments Reports\FY16\SoftwareMaintenanceSummaryFY16.docx
R:\doc\Accomplishments Reports\FY16\SoftwareMaintenanceSummaryFY16.pdf

--- (end) ---