CADSWES Accomplishments: October 2017

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I New/Enhanced Software

A. Sponsored Tasks

**USACE ABQ 7 – Combine Output Canvas information with Geospatial View – Flow Lines**

In October, 2017, CADSWES staff completed USACE ABQ 7 – Combine Output Canvas information with Geospatial View – Flow Lines and Canvas Lines.

RiverWare Output Canvases include items such as charts, text, teacups, and Flow Lines. In the previous year, functionality was added to optionally combine charts, text, and teacups from Output Canvases with existing items on the Geospatial and Simulation Views. This enhancement adds Canvas Lines and Flow Lines to the items included on the Geospatial and Simulation Workspaces.

Flow Lines and Canvas Lines added to the Geospatial and Simulation views can be repositioned on each view. Coordinates and anchor points are maintained separately for each view. A right click menu is provided on each view allowing Canvas Lines and Flow Lines to be extended, reduced, and dragged independently on each view and saved with the model. Support for flow line animation using the date time spinner on the workspace was included.

Models previously saved with output canvas items combined with workspace views may look different when opened as flow lines and canvas lines will be automatically displayed in the lower left corner of the view and may need to be resized or moved.

Additional information can be found in the following document:

R:\doc\Output\OutputCanvas\2017\OutputCanvas-2017-09.docx

**USBR-LBAO Truckee - 1.3 Date/Time Enhancements Synchronized Periodic Slots.**

In Oct 2017, CADSWES staff completed USBR-LBAO Truckee – 1.3 Date/Time Enhancements – Synchronized Periodic Slots.

Periodic Series Slots and Series Slots with Periodic Input are tables used to represent periodic data which repeats at a regular time interval. The Periodic Slot Configuration Dialog, accessed from the Slot Dialog via the View -> Configure menu, is used to configure the period and interval of the slot. The period can range from 6-hours to several years. When the period is more than one year, a Base Year must be specified to indicate the first year in the period. Previously this value was entered in the form of an integer year.

To make the specification of Base Year more flexible and robust, RiverWare’s Periodic Slot Configuration dialog was enhanced to present the option to synchronize Base Year with a relevant time in the model, such as the start year of the run, without having to set a static value. The Base Year value will be stored as a string and resolved to an actual date as needed, relative to the referenced model time.

Models with previously saved multi-year Periodic Slots or Periodic input will continue to be supported and will remain unchanged unless the Periodic Slot's (or Periodic Input's) configuration is edited in any way and re-saved. When this occurs, the slot's Base Year will be automatically converted from an integer to a string representation. The base year will appear in the model enclosed in curly braces and preceded by StringVal: such as in the following examples:

rowMap2 Reg 2 YEAR {StringVal: 1987} 1 MONTH

rowMap2 Reg 2 YEAR {StringVal: Start timestep + 2 Years} 1 MONTH

More information can be found in the following document:

R:\doc\SlotDialogs\BORTruckee-PeriodicSlotSymbolicBaseYear.docx

**USACE-ABQ-5 Script Enhancements**

In October, 2017, CADSWES staff began work on an enhancement to the Script Dashboard. This enhancement includes the addition of visual indicators to the Script Dashboard to illustrate progression, completion, and error of script tasks and subtasks. This enhancement will be completed in November, 2017

More information can be found in the following document:

R:\doc\ScriptManager\2017\SubscriptActionsAndProgress-Nov2017.docx