II. RiverWare Software Maintenance

**Releases, Patches and Snapshots**

Release 7.1.2 Patch Release

RiverWare Patch 7.1.2 was released on September 1, 2017.

Summary of Changes in RiverWare Patch Release 7.1.2

Many Selections now Support Wildcards:

Within Scripts and Model Reports, many of the items that allow selection of objects, slots, or accounts were modified to allow wildcarding within the selection.

The following script action types were modified:

* Set Method
* Set Scalar Slot Value
* Set Table Slot Value
* Set Series Slot Values
* Set Series Slot Flags
* Clear Scalar Slot Value
* Clear Table Slot Value
* Create Snapshot
* Evaluate Expression Slots
* Synchronize Objects
* Open Objects
* Open Slots

The following model report item types were modified:

* Slot Value Table
* Account Table
* Supply Table

This change only impacts editing of new script actions and new model report items; the behavior of existing script actions and model report items is unaffected.

HDB Database DMI importing Series Slot Notes:

The HDB Database DMI was modified to ignore certain exceptions when importing metadata as notes. In addition, the utility now better recognizes missing metadata information.

Bugs:

The following issues were addressed:

* 5920: The Note Group Manager was not updating when a DMI created a new group.
* 5965: The DSS Database DMI was modified to improve processing of large data sets. Previously, a timeout could occur unexpectedly.
* 5981: Plot time axis settings were lost after saving and reloading.
* 5987: RPL Notes were displaying the incorrect label.
* 5989: Object viewer drag cursor icon was difficult to see.
* 5990: SCT wasn't refreshing when paused in RPL Debugger after slot range change.
* 5991: Editing series slot data during a run was permitted and caused problems.
* 5992: In the Name Map Manager, the File->Close did nothing.
* 5995: DMI Lock icon behavior was reversed.
* 5996: Output Canvas background images were not displayed.
* 5997: SCT priority column width was not correctly sized when paused in RPL Debugger.
* 6002: An SCT showing only a single flag in the flag legend was not opening correctly.

Release 7.1.3 Patch Release

RiverWare Patch 7.1.3 was released on September 19, 2017.

Summary of Changes in RiverWare Patch Release 7.1.3

Bugs:

The following issues were addressed:

* 6005: In the Reach well mixed salinity method, Solve Out Salt Given In Salt, improved error checking was added to better model salinity when flows are near zero.
* 6009: RPL Notes were not saving correctly.

**Bug fixes**

**Bug 5932 –** The efficiency slot was shown incorrectly. To fix this bug, old/unused optimization categories and methods were removed from the water user and agg diversion site. This removed a default method that had slots associated with it.

**Bug 6005 -** In the Reach well mixed salinity method, Solve Out Salt Given In Salt, improved error checking was added to better model salinity when flows are near zero. This prevented an error in certain Reclamation salinity models.

**Regression Tests**

The regression tests continue to be maintained on a daily basis. This involves updating the regression tests to exercise new developments in the code. Also, as new code is added to the development area, the model comparisons performed in the nightly regression tests usually show differences (for example, because a new method category may have been added). When this occurs, the regression tests need to be updated to reflect the current state of the development area so model comparisons do not fail. In addition, every week, the daily history of each regression test is analyzed to determine if the run time or model size has significantly changed because of new development. In September, the regression tests were monitored and updated as necessary. In particular, the 32 bit development machine failed to pull when project files changed. These were pulled by hand and then the reconfigured to run. In addition, in September, the regression tests were run with different RPL units by changing the argument used in –rplslotvalunits from the default “mixed” to “std” and “user”. There were differences in both cases which were reported to the RiverWare development team via email.