



Center for Advanced Decision Support for
Water and Environmental Systems (CADSWES)

UNIVERSITY OF COLORADO **BOULDER**

Slots and Output Canvas Enhancements

Presenters: Patrick Lynn, David Neumann and Robynn Balduf

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Slot Sets – What

A **Slot Set** is a named collection of slots

Examples:

- “Basin Inflows”
- “Lower Valley Demands”
- “Oroklini Lake Mass Balance Slots”

Slot Sets – Why

Niftiness:

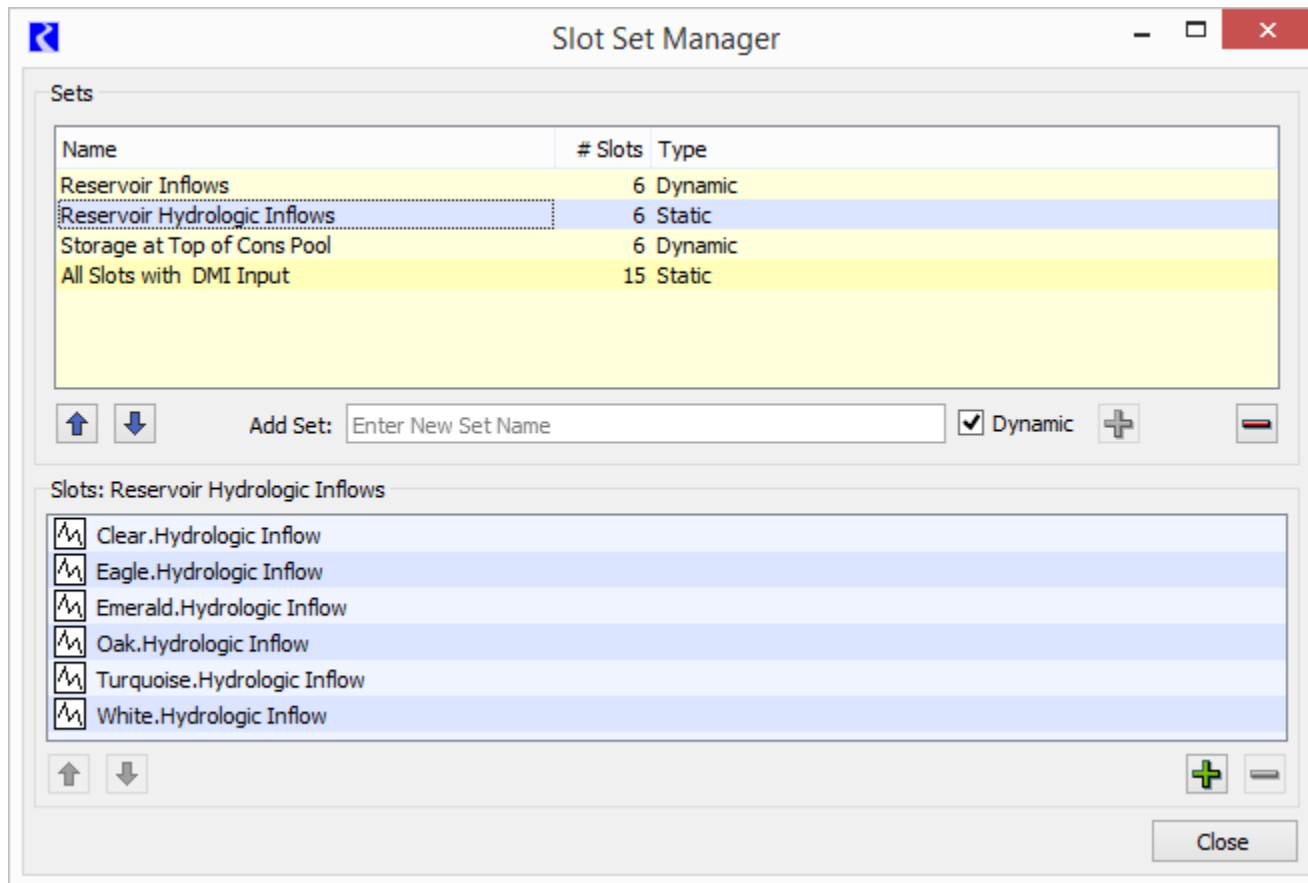
- Effort (specify once, reuse)
- Clarity (names can describe contents)
- Consistency (all uses share definition)
- Adaptability
(localized definition, automatic update)
- Readability (compact, readable policy)

Slot Sets – When

- Anywhere that a slot is selected:
 - Scripts
 - Database DMIs
 - Output devices (plots, model reports, ...)
 - ... (roughly 40 other contexts)
- RPL policy
 - List of Slots = ListSlotSet(STRING set name)
- DMIs (control file, trace directory)

The Slot Set Manager

Create, View, and Edit Slot Sets



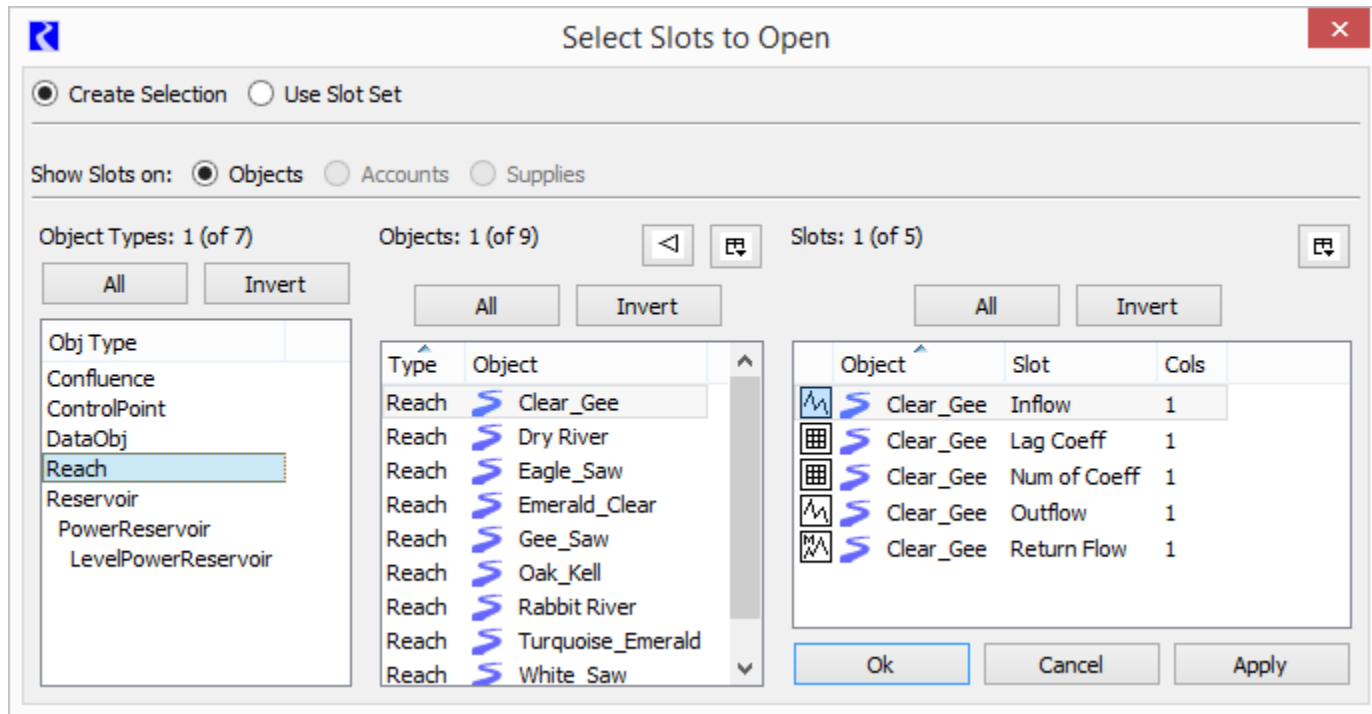
The screenshot shows the Slot Set Manager window with the following data:

Name	# Slots	Type
Reservoir Inflows	6	Dynamic
Reservoir Hydrologic Inflows	6	Static
Storage at Top of Cons Pool	6	Dynamic
All Slots with DMI Input	15	Static

Below the table, the 'Add Set' field contains 'Enter New Set Name' and the 'Dynamic' checkbox is checked. The 'Slots: Reservoir Hydrologic Inflows' section lists the following slots:

- Clear.Hydrologic Inflow
- Eagle.Hydrologic Inflow
- Emerald.Hydrologic Inflow
- Oak.Hydrologic Inflow
- Turquoise.Hydrologic Inflow
- White.Hydrologic Inflow

Traditional Slot Selection



Selecting a Slot Set



Select Slots to Open

Create Selection Use Slot Set

Sets

Name	# Slots	Type
Reservoir Inflows	6	Dynamic
Reservoir Hydrologic Inflows	6	Static
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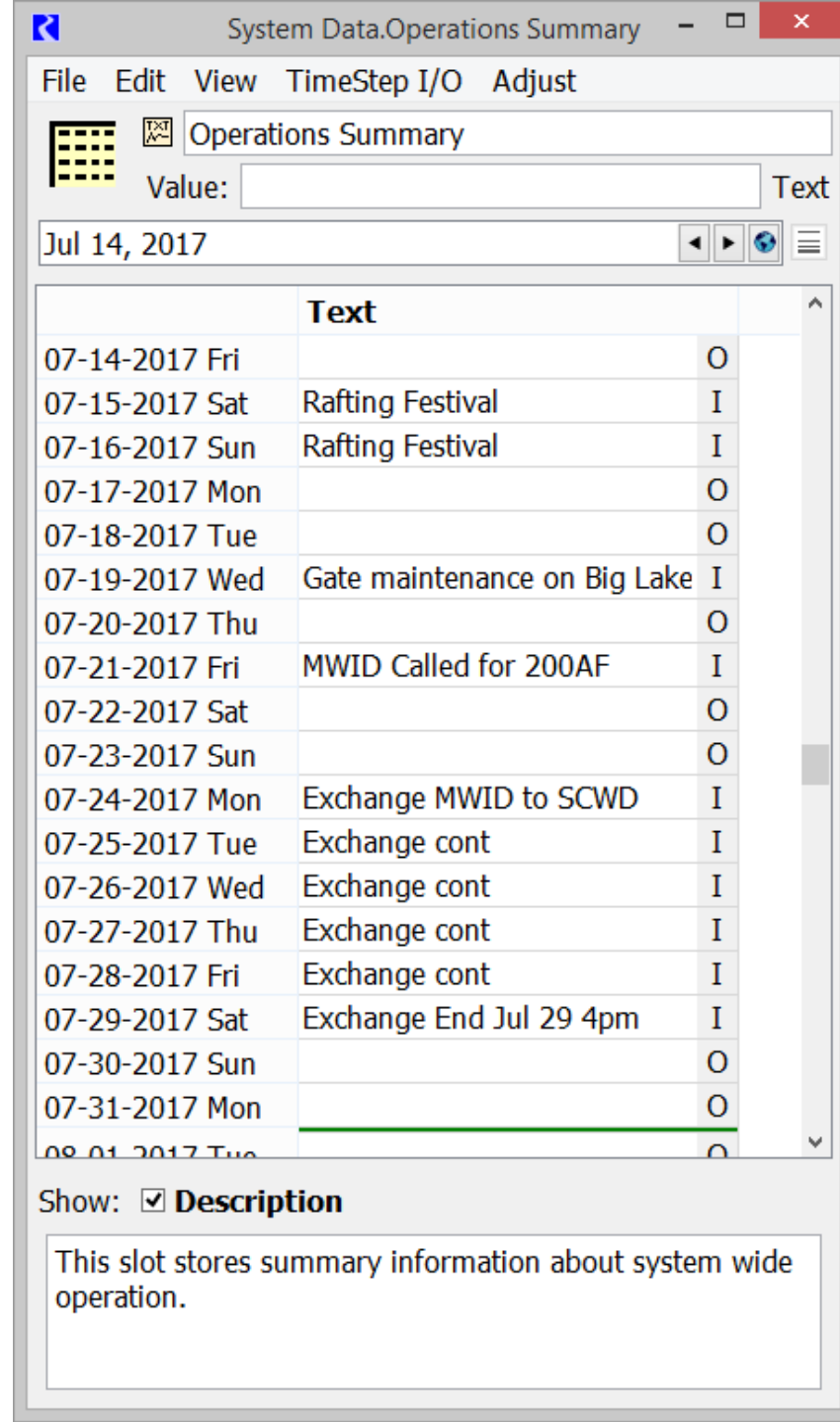
Slots: Reservoir Hydrologic Inflows

- Clear.Hydrologic Inflow
- Eagle.Hydrologic Inflow
- Emerald.Hydrologic Inflow
- Oak.Hydrologic Inflow
- Turquoise.Hydrologic Inflow
- White.Hydrologic Inflow

Ok Cancel Apply

Text Series Slots

- Show/edit in slot dialogs or SCT
- Import and export via Excel DMI only
- Many future enhancement ideas:
 - Read/set via Rules
 - Show in plots



The screenshot shows a software window titled "System Data.Operations Summary". The window has a menu bar with "File", "Edit", "View", "TimeStep I/O", and "Adjust". Below the menu bar is a toolbar with a grid icon, a "Text" icon, and a search box containing "Operations Summary". A "Value:" field is also present. The main area displays a table with a date column and a "Text" column. The table data is as follows:

	Text	
07-14-2017 Fri		O
07-15-2017 Sat	Rafting Festival	I
07-16-2017 Sun	Rafting Festival	I
07-17-2017 Mon		O
07-18-2017 Tue		O
07-19-2017 Wed	Gate maintenance on Big Lake	I
07-20-2017 Thu		O
07-21-2017 Fri	MWID Called for 200AF	I
07-22-2017 Sat		O
07-23-2017 Sun		O
07-24-2017 Mon	Exchange MWID to SCWD	I
07-25-2017 Tue	Exchange cont	I
07-26-2017 Wed	Exchange cont	I
07-27-2017 Thu	Exchange cont	I
07-28-2017 Fri	Exchange cont	I
07-29-2017 Sat	Exchange End Jul 29 4pm	I
07-30-2017 Sun		O
07-31-2017 Mon		O
08-01-2017 Tue		O

At the bottom of the window, there is a "Show:" section with a checked box for "Description". Below this is a text box containing the description: "This slot stores summary information about system wide operation."

Output Canvas: What are they?

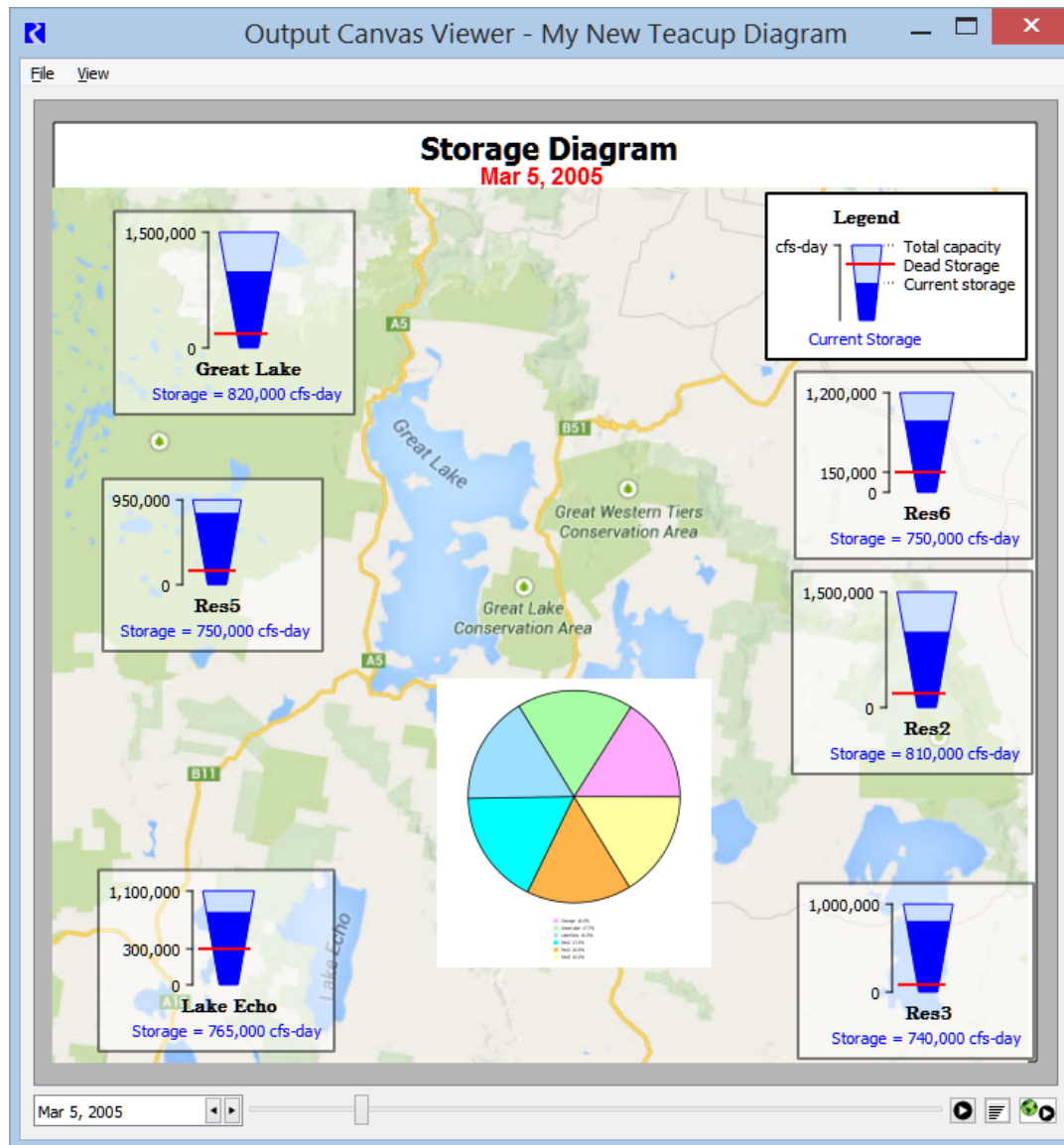
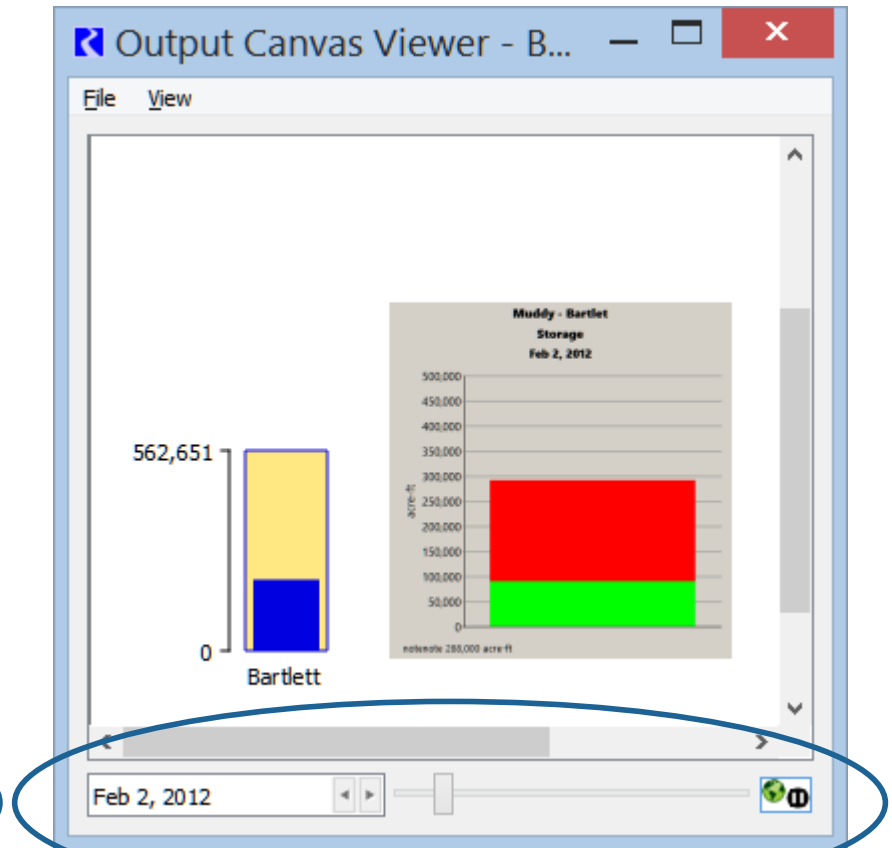
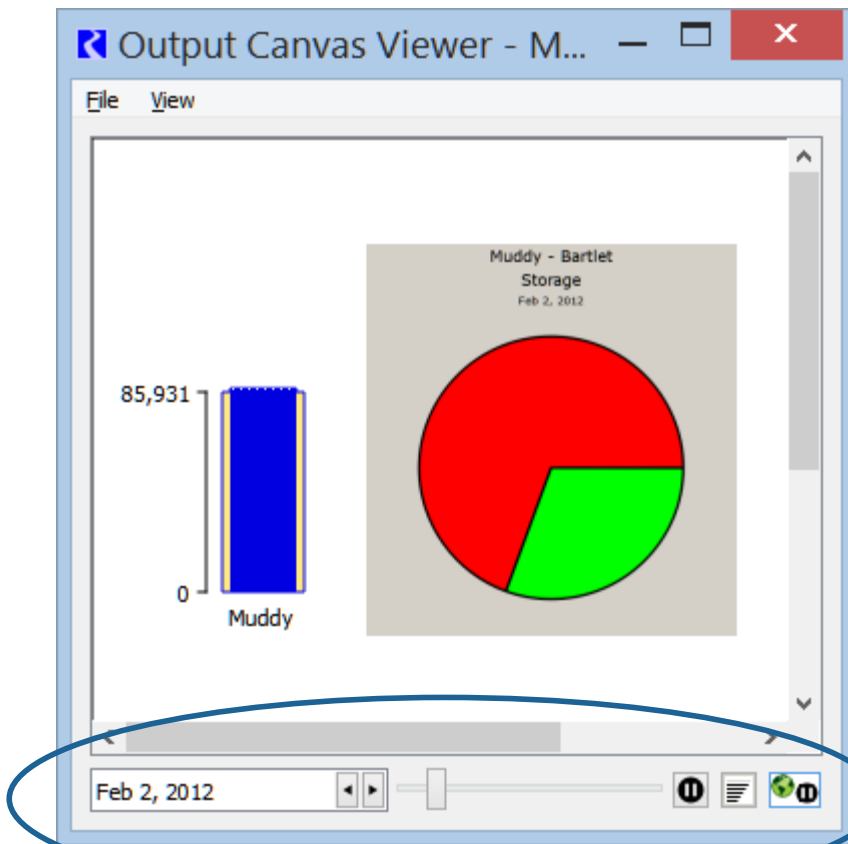


Chart and Output Canvas Enhancements

- Hide chart legend
- Change font and font size
- Change bar chart spacing
- Coordinate animation
- Place output canvas items on geospatial and sim workspaces

Output Canvas and Charts 7.1

- Coordinated Animation



Output Canvas items on the workspace

Charts, teacups, text, flow lines

on Geospatial and Sim workspaces

