RiverWare 6.6: Show Slot Descriptions in SCT / Features Phil Weinstein, CADSWES, edit: 7-09-2014.

The RiverWare SCT was enhanced with features to show slot descriptions in, and from, the SCT. Two types

- of features were added:
 1. Tooltips on slot items. When a slot description is shown as a tooltip, the original line-breaks are preserved and lines longer than 00 abaresters are unlit into multiple lines (i.e. long lines are).
 - preserved *and* lines longer than 90 characters are split into multiple lines (i.e. long lines are *wrapped*).
 New context menu operation: "Open Slot Description " This shows the slot's Open Slot dialog w
 - 2. New context menu operation: "Open Slot Description...". This shows the slot's Open Slot dialog with the Description panel open. This is where slot descriptions are provided by the user.

Below are three Open Slot Dialogs showing a user-supplied slot description.

💦 FaradData.FaradNatur 🗖 🔍 🔀	MHEData.DutyValues	🕻 LahontanDat 💷 🖾
File Edit View TimeStep I/O Adjust	File Edit Row Column View Adjust	File Edit View
Value: 7620.35506792 cfs	Image: DutyValues Value: 1.5	(U) DaysToLookAhead
May 18, 1996	Duty1 Duty2 Duty3 Duty4 feet feet feet feet	Value: 30 day
cfs 🔺	0 1.50 2.99 3.50 4.50	30 day
05-14-1996 Tue 2,979.16 R		Show: 🔽 Description
05-15-1996 Wed 4,077.79 R	Show: V Description	Contains the number of days to
05-16-1996 Thu 7,620.36 R		look ahead in the Lahontan
05-17-1996 Fri 6,828.30 R	Duty has the units of ac-ft/acre which results	Precautionary Release projection functions.
Show: Description This slot is set by the "Set Forecast" rule. It is the total natural flow in the basin above	These values are multipled by the irrigated acreage in order to determine the Max Headgate Entitlements for each water use HMG 5/11/11	-HMG 1/28/11
Farad on that day. It is used to calculate the cumulative natural flow during the AJ period for evaluating the snowmelt parameter sc 12/03/09		

Note that user-supplied description support is currently devised specifically for *physical* slots. Although *accounting* slots *can* be shown in an Open Slot dialog -- where slot description editing is supported -- accounting slots are normally shown instead in other, accounting-slot related dialogs.

The new tooltip and context-menu features were added to the following five SCT contexts -- on four tabs of the SCT.

- 1. SCT Series Data Table (Series Slots) -- Horizontal Time Axis Orientation
- 2. SCT Series Data Table (Series Slots) -- Vertical Time Axis Orientation
- 3. SCT Edit Series Slot List Tab
- 4. SCT Scalar Slots Tab (including 1x1 Table Slots)
- 5. SCT "Other Slots" Tab (Table, Periodic and List Slots)

(1) SCT Series Data Table (Series Slots) -- Horizontal Time Axis Orientation

These three operations were added to the slot row header context menu:

- Open Slot...
- Open Slot Description...
- Copy Slot

And a slot's description is shown as a tooltip on the slot label in the slot row header -- *see below*.

Serie	es Slots Edit Series Slot List	Sca	alar Slots	Other Sl	ots
	Slot Label	Units	9/30/70 Wed	10/1/ Thu	
14	LahontanData.CDDShortage		cfs	<i>\\\\\\\</i>	
44	LahontanData.PrectnryRelFlow		cfs		
- 14	Lahontan.Pool Elevation	feet	4,144.97	4,14	
M	TruckeeCanalDivData.CanalCapa	cfs	NaN	25	
M	FaradData.FaradNaturalFlow	- c -	N-N	14	
M	Pyramid.Evaporation Rate	nsert Divid	der		
M	Pyramid.Precipitation Rate	R	emove Sl	ot	
			_		
		0	pen Slot.		
		0	pen Slot I	Description	
		opy Slot			
		-		1	

SCT (TruckeePlanning-01-2012.mdl.gz) □ □ × =ile Edit Slots Aggregation View Config DMI Run Diagnostics Go To ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓									
Series Slots Edit Series Slot List Scalar Slots Other Slots Object Grid									
Slot Label	Units	9/30/70 Wed	10/1/70 Thu	10/2/70 Fri	10/3/70 Sat	10/4/70 Sun	10/5/70 Mon	10/6/70 Tue	10/7/ Wed
K LahontanData.CDDShortage	cfs		NaN						777
K LahontanData.PrectnryRelFlow	cfs	7777777	0.00	NaN	NaN	NaN	NaN	NaN	777
A Lahontan.Pool Elevation	feet	4,144.97	4,144.83	NaN	NaN	NaN	NaN	NaN	
TruckeeCanalDivData.CanalCapacity	cfs	NaN	250.00	250.00	250.00	250.00	250.00	250.00	25
🛛 🕂 FaradData.FaradNaturalFlow	cfs	NaN	141.20	156.66	139.53	139.03	127.17	127.34	10
🛛 🗛 Pyramid.Evaporation Rate	in/day	NaN	0.19	0.18	0.18	0.18	0.18	0.17	
M Pyramid.Precipitation Rate This slot is set by the "Set Forecast" rule. It is the total natural flow in the basin above Farad on that day. It is used to calculate the cumulative natural flow during the AJ period for evaluating the snowmelt parameter sc 12/03/09 0.01									
LahontanData.CDDShortage [@ 9/30/70] 0 values	Volume: ().00 [ft3]							

(2) SCT Series Data Table (Series Slots) -- Vertical Time Axis Orientation

A context menu was added to the slot column headers with these these three operations:

- Open Slot...
- Open Slot Description...
- Copy Slot

Series Slots Edit Series Slot List Scalar Slots Other Slots Object Grid FaradData TruckeeCanalDivData Pyramid CanalCapacity .FaradNaturalFlow Timestep Day .Evaporation Rate cfs cfs Open Slot.. 9/30/70 Wed NaN Open Slot Description... 10/1/70 Thu 250.00 Copy Slot 10/2/70 Fri 250.00 10/3/70 Sat 250.00 139.53 0.

And a slot's description is shown as a tooltip -- *see below*.

SCT (TruckeePlanning-01-2012.mdl.gz)									
File Edit Slots Aggregation View Config DMI Run Diagnostics Go To									
Series Slots Edit Series Slot List Scalar Slots Other Slots Object Grid									
Timestep Day TruckeeCanalDivData CanalCapacity cfs CanalCapacity cfs CanalCapacity c									
9/30/70	Wed	NaN	NaN	NaN	NaN				
10/1/70	Thu	250.00			ule. It is the total natural				
10/2/70	Fri	250.00		on that day. It is used to aluating the snowmelt pa	calculate the cumulative	natural flow dur	ring		
10/3/70	Sat	250.00	139.53	0.18	0.01				
10/4/70	Sun	250.00	139.03	0.18	0.01				
10/5/70	Mon	250.00	127.17	0.18	0.01				
10/6/70	Tue	250.00	127.34	0.17	0.01				
10/7/70	Wed	250.00	107.33	0.17	0.01				
10/8/70	Thu	250.00	129.16	0.17	0.01				
10/9/70	Fri	250.00	213.83	0.17	0.01				
10/10/70	Sat	250.00	149.70	0.17	0.01	-			
	FaradData.FaradNaturalFlow Volume: 557.88511680 [1,000,000,000 ft3] (6787 obscured pre-sim timesteps) 11050 values: Sum 6,457,003.67 Ave 584.34 Min 19.15 Max 25,682.47 Range 25,663.31 [cfs]								

(3) SCT Edit Series Slot List Tab

These two context menu operations were added to slot items in the SCT EditSeries Slot List tab.

- Open Slot...
- Open Slot Description...

And a slot's description is shown as a tooltip -- *not illustrated here*.

ADDITIONAL ENHANCEMENT: A "**Step Size**" column was added to the SCT Edit Series Slot tab. This is especially useful because the SCT series data table can support only one step size at any one time. Series slots which don't match that step size are grayed-out, but the reason is not indicated. (Another reason could be that the slot item -- specified using a complete slot name -doesn't actually exist in the model).

SCT (TruckeePlanning-01-2012.mdl.gz)										
File Edit Slots Aggregation View Config DMI Run Diagnostics Go To Image: Im										
Series Slots Edit Series Slot List Scalar Slots Other Slots Object Grid										
Add / Delete / Move	Series Slots									
Slot or Divider Lab	el	Unit Type	Step Size							
	ntanData.CDDShortage ntanData.PrechryRelElow Close All Groups Insert Slots Insert Divider Reassign Slot Remove Slot	Flow Length y Flow Flow Velocity Velocity	1 Day 1 Day 1 Day 1 Day 1 Day 1 Day 1 Day							
Append Slots	Copy Slot Cut Slot Insert 2 Cut Slots Append 2 Cut Slots			C Show						
	Open Slot Open Slot Description		-	-						

(4) SCT Scalar Slots Tab (including 1x1 Table Slots)(5) SCT "Other Slots" Tab (Table, Periodic and List Slots)

These following operation was added to the slot row header context menu:

> • Open Slot Description...

And slot descriptios are shown as tooltips -- *see below*.

Object		Slot		Value	Units
IncentiveCreditData	ω	AllowICWPrectnryRelY	rSwitch	0.00	NONE
IncentiveCreditData	ω	AllowEvapDebitSwitch		1.00	NONE
IncentiveCreditData	ω	DebitReductionDate	C		200 600
IncentiveCreditData	ω	EvaporationChargeDat		y Value: 126,403	,200.609
IncentiveCreditData	ω	MaxDeficit	Ope	n Slot	
IncentiveCreditData	ω	AssignmentDate	Ope	n Slot Description	
FaradToDerbyDepletions	ω	InputLocalInflowsSwite	Ope	n Object	N
LahontanData	ω	CurtailmentThreshold	Con	y Slots	
LahontanData	ω	DaysToLookAhead		720100	

C SCT (TruckeePlanning-01-2012.mdl.gz)									
File Edit Slots Aggregation View Config DMI Run Diagnostics Go To									
🕜 📝 🖬 🗄 🖄 🖄 🛠 🕨 🖉 📖 🗔 🛱 🗍 January 3 🛛 🛛 Dec 31, 🔸 🚱									
Series Slots Edit Series Slo	t Lis	t Scalar Slots Other Slot	ts Object Grid	1	1				
Object		Slot	Value	Units	<u> </u>				
IncentiveCreditData	ω	AllowICWPrectnryRelYrSwitch	0.00	NONE					
IncentiveCreditData	ω	AllowEvapDebitSwitch	1.00	NONE					
IncentiveCreditData	ω	DebitReductionDate	January 3	MonthAndDay					
IncentiveCreditData	ω	EvaporationChargeDate	January 3	MonthAndDay					
IncentiveCreditData	ω	MaxDeficit	-32,070,527.78	m3					
IncentiveCreditData	ω	AssignmentDate	July 1	MonthAndDay					
FaradToDerbyDepletions	ω	InputLocalInflowsSwitch	1.00	NONE					
LahontanData	ω		0.60	NONE					
LahontanData	ω	DavstuluukAneau	= Input = Calcualte using	regressions	-				
1	Compress name columns 9 Slots, 1 Selected.								
		Ap	pend Slots	emove Slots	Open Slots				

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