



Center for Advanced Decision Support for Water and Environmental Systems (CADSWES) UNIVERSITY OF COLORADO BOULDER

Object, Slot, and RPL Viewers

Presenter: Mitch Clement

2018 RiverWare User Group Meeting

February 1-2, 2018

Object Viewer

| R Ob | ject Viewer | | | × |
|--|--------------------|---------|--|----|
| File Edit View Slot Account | Group | | | |
| Aspen 🗷 Birch 🗷 Cedar 🛛 | | | | ▼ |
| 🛆 Object: Cedar | | | | |
| Slots Methods Accounts | Accounting Methods | Attrib | outes | |
| December 31, 2017 | | | Ø | 1~ |
| Slot Name | Value | Units | | ^ |
| 🖾 Inflow | 3,040.35 | cms | | |
| 🖾 Outflow | 2,200.00 | cms | LI | |
| 🖾 Storage | 4,610.42 | MCM | ΩØ | |
| M Pool Elevation | 240.00 | | | |
| M Total Inflows | NaN | | ΩØ | |
| M Inflow Sum | NaN | | | |
| M Diversion | NaN | | | |
| Diversion Capacity | NaN | | stand 81003 | |
| Return Flow | NaN | | <u> </u> | |
| M Spill | NaN | | (C) C) C) C) C) C) C) C) C) C) C) C) C) C | |
| M Release | NaN | cms | ΩØ | |
| Max Iterations | | | | |
| Convergence Percentage Elevation Volume Table | | | | |
| Elevation volume rable Max Release | | | | |
| Available for Diversion | NaN | cmc | | |
| | NaN | | | |
| | INDIN | uns | 10111201 | × |
| Order: Default | ▼ | Slots - | | |
| | | | | |

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CPLEX

Obiect Viewer

88

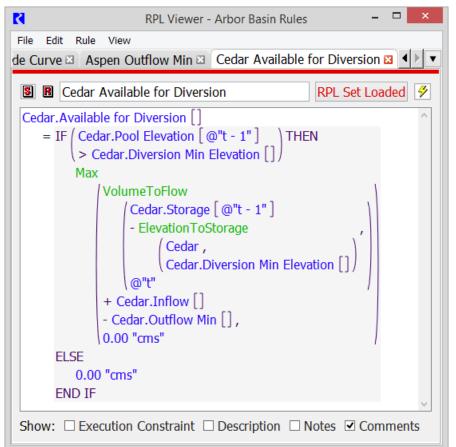
- Objects are tabs in single dialog
- Same functionality as object dialog
- Undock/re-dock objects
- Optionally close slots when closing object
- Reopen with same set of objects

Slot Viewer

| R | | | | | | Slot Viewer | | | | | | | _ □ | x |
|--|--|---------------------------------|--|----------------------------|---|---------------------------------|--------------------|--|--|--|---|--|----------------------|---|
| File Edit View T | FimeStep I/C |) Adj | ust | | | | | | | | | | | |
| Selected Slot: 🕅 C | edar.Outflov | v | | | | | | | | | | | = 🗠 | • |
| Value: 2200 | | | | | | | | | | cm | IS Dec 3 | 31, 2017 | • | • |
| | Aspen .Inflow .Total cms | × | Aspen .Outflow cms | × | Aspen E Pool Elevation | Birch Inflow Total Cms | | Birch Outflow | Birch In Pool Elevation | Cedar .Inflow .Total cms | × | Cedar .Outflow cms | X | ^ |
| 12-31-2017 Sun | NaN (| C | 3,864.82 I | 0 | 274.56 I 0 | 3,234.22 0 0 | | 3,083.74 I 0 | 252.94 I 0 | 3,040.3 | 500 | 2,200.00 | I 0 | - |
| 01-01-2018 Mon 01-02-2018 Tue 01-03-2018 Wed 01-04-2018 Thu 01-05-2018 Fri 01-06-2018 Sat | 1,685.71 1,687.06 1,688.42 1,689.77 1,691.13 | 0 I 0 I 0 I 0 I 0 I | 1,962.74 R 1,681.66 R 1,683.01 R 1,684.37 R 1,685.72 R 1,686.69 R | 32 32 32 32 32 | 273.91 0 25 273.92 0 25 273.93 0 25 273.94 0 28 273.95 0 28 273.96 0 28 | 1,681.99 O 32 1,683.35 O 32 | <u>)</u>)) | 3,381.05R253,389.30R251,892.47R251,700.00R281,700.00R281,700.00R28 | 253.00O25253.00O25253.00O25252.96O28252.92O28252.88O28 | 3,383.1 3,015.0 1,844.3 1,700.0 | 7 O 25 1 O 25 9 O 25 5 O 28 0 O 28 0 O 28 | 2,546.73 2,595.86 2,654.39 2,701.82 2,707.59 2,707.99 | R 23 R 23 R 23 | * |
| Cedar.Outflow To 370 values: Sum 8 | | | | 1,5 | 00.00 Max 3,1 | 79.87 Range 1, | 67 | 79.87 [cms] | | | | | | |

- Multiple series slots single dialog
- Undock/re-dock
- Create SCT from Slot Viewer

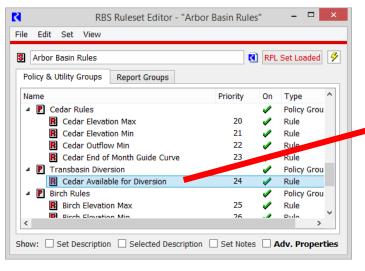
RPL Viewer



- Rules/functions are tabs in single dialog
- Same functionality as rule/function editor
- Undock/re-dock rules/functions
- One RPL Viewer per RPL Set

RPL Viewer – One per Set

Ruleset



Global Functions Set

| Edit Set View | |
|---|-----------------------------------|
| Arbor Basin Functions | a 9 |
| olicy & Utility Groups Report Gro | ups |
| lame | On Type |
| F 🔘 OutflowForMaxElevatio | onRules 🖌 Classificanción |
| F 🔘 OutflowForMinOutflow | Rules 🛛 🗸 Global Function |
| Diversion Schedules | 🖌 Global Utility Group |
| F 🔘 ForecastInflow | Global Function |
| F 🕕 DemandCalc | Global Function |
| F 🔘 MinimumDiversion | Global Function |
| F 🔘 ShortageEstimate | Global Function |
| F 🕕 ShortageAllocation | Global Function |
| Image: | 🖌 Global Utility Group |
| 📕 🕼 MaxReleaseGivenChan | nelCapacity 🖌 Global Function 🗸 🗸 |

Ruleset RPL Viewer



Global Functions RPL Viewer

