

“Add to Display Groups” Context Menus in RiverWare 6.1

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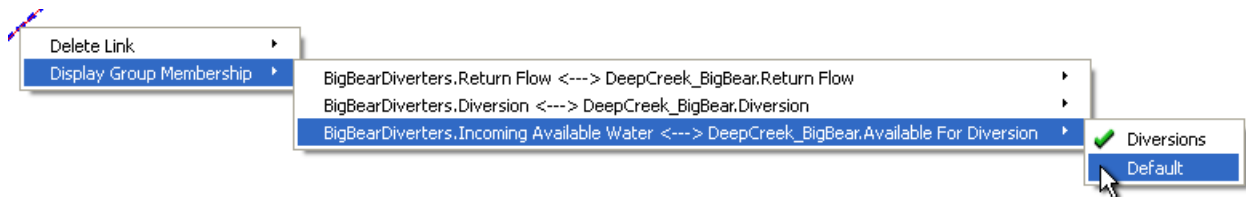
0.1 Document Status

12-21-2010: Ready for review.

1.0 Prior Related Display Group Context Menu Features

In the various RiverWare Views, context menus on Simulation Objects, Accounts and physical Links have supported a “Display Group Membership” submenu which lists the display groups to which items belongs. Picking a display group opens the Display Group Editor dialog for that group.

Since multiple Links can exist along the same “line”, the Link context menus have an additional menu level with one item for each Link



2.0 New Display Group Context Menu Features

The existing “Display Group Membership” context submenus have been renamed to be specific with regard to the *type* of Display group. The submenus are:

- Object Group Membership
- Account Group Membership
- Link Group Membership

Similar submenus have been added to the Object, Account and Link context menus:

- Add to Object Group
- Add to Account Group
- Add to Link Group

The “Add To” submenus list only display groups to which the item *does not* belong. However, the two automatic Link Groups (“Default” and “Main Channel Links”) are never included in the “Add To” Link submenus. The links included in those two predefined Link Groups are not settable by user selections.

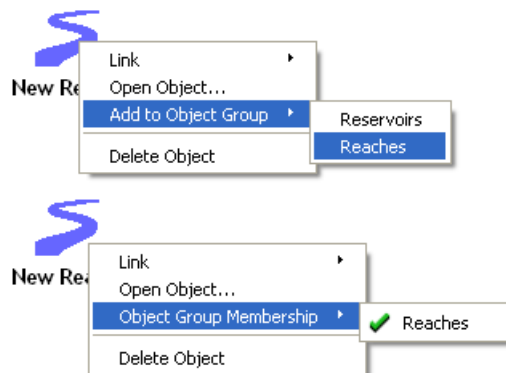
3.0 Object and Account Context Menus

In the case of Object and Account context menus, only one of these the menus is shown at any given time.

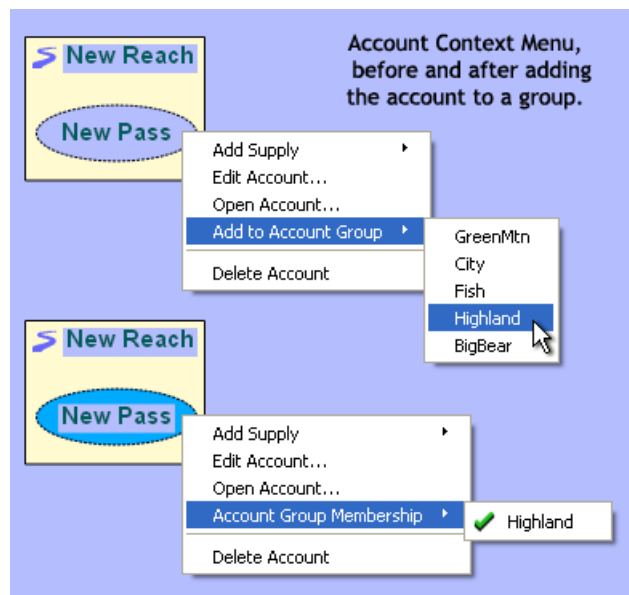
- The “Membership” submenu is shown only if the Object or Account is in a display group,
- The “Add to” submenu is displayed only if the Object or Account is *not* in a display group.

(Also, in RiverWare Viewer mode, and in a Scenario baseline model, only the “Membership” submenu is ever shown).

Simulation Object Context Menu, before and after adding the object to a group.

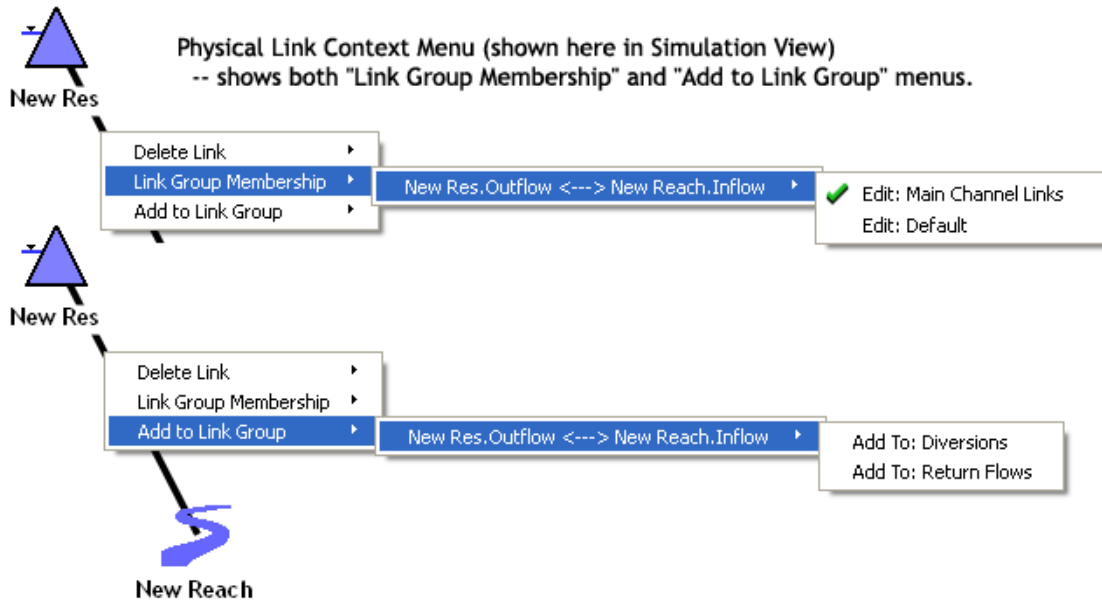


Account Context Menu, before and after adding the account to a group.



4.0 Link Context Menu

In the case of the Link context menus, both the “Membership” and the “Add to” submenus are unconditionally shown -- that is, both submenus are always available ...



Because of the complexity of these menus, and the importance to distinguish their actions, an “action” prefix (“Edit:” or “Add To:”) is added to the third menu level -- i.e. with the link group names.

Note that a link group is *not* defined as a set of links. It is defined by *one or two sets of slots* associated with the ends of the included links. Adding a link to a link group (by means of including one or both of that link's associated slots in one or both of the link group's slot sets) may cause *other* links to also become part of the link group.

When adding a link to a link group, care is taken to minimally impact the one or two slot sets which define the set of links included in the link group ...

- If the link group was not empty and was defined in terms of ONLY ONE slot set, then only one of the link's two slots are put into that slot set. If either of the link's two slots are already in that slot set, then no change is made. (This is a low-level detail. In fact, in that case, the link would already have been in the link group).
- If the link group was empty OR was defined in terms of TWO slot sets, then *both* of the new link's two "end" slots are put into the two slot sets. But if either slot is already in one of the two slot sets, then that slot/slot set association is “used”, and the *other* slot is put into the other link group slot set.

