Automated PassThrough Account Creation

1.0 Purpose

The Automated PassThrough Account Creation function allows the user to identify two existing Accounts on different Simulation Objects and create linked PassThrough Accounts on all intervening Objects in a single operation. This is a convenient alternative to showing the Open Object dialog box for each of the intervening Objects to create a PassThrough Account.

All newly created Accounts and Supplies are assigned properties selected by the user:

Account Name	Table of Contents
Account Water Type	
Account Water Owner	Moin Monu
Supply Release Type	Main Menu
Supply Destination (Type)	

2.0 Quick Usage Overview

- 1 Open the Create PassThrough Accounts dialog box from either the Water Accounts Manager dialog box or an Open Object dialog box:
 - Water Accounts Manager -> "Account" -> "Create" -> "PassThrough Accounts ..."
 - Open Object -> "Account" -> "Create" -> "PassThrough Accounts..."
- 2 Select the desired UpStream Account
 - Select an Object Type (or "All Object Types")
 - Select an Object of that Type
 - Select an Account on that Object
- 3 Select the desired DownStream Account
 - Select an Object Type (or "All Object Types")
 - Select an Object of that Type
 - Select an Account on that Object
- 4 Enter the desired Account Name for newly created Accounts
- 5 Enter the desired Water Type for newly created Accounts
- 6 Select the desired Water Owner for newly created Accounts
- 7 Select the desired Release Type for newly created Supplies
- 8 Select the desired Destination (Type) for newly created Supplies
- 9 Press either the 'OK' or 'Apply' button.

Object: Mountain Storage Account: Bloomdido	Provious Por
Account: Bloomdido	Provious Por
Downstream	FIEVIOUS Pa
Downouccun	
Obj Type: All Object Types	Table of Contents
Object: Valley Storage	
Account: Bloomdido	
Water Type: Aggressive Image: Comparison of the second se	
New Supplies Properties	
Release Type: Flood Control	
Destination: Municipal 🗵	

3.0 Using the Dialog

3.1 Invoking the Dialog

This dialog box can be shown using either of these two menu operations:

From the Water Accounts Manager dialog box: Account -> Create -> PassThrough Accounts ...

From an Open Object dialog box: Account -> Create -> PassThrough Accounts ...

3.2 Overview of the Dialog

The Create PassThrough Accounts dialog box includes the following user controls:

- **1.** Two Account Selector Boxes:
 - An Upstream Account (Selections: Object Type, Object, Account)
 - A Downstream Account (Selections: Object Type, Object, Account)

2. New Account Properties controls for specifying properties given to the Accounts created with by operation.

- An Account Name (Text Entry Field)
- A Water Type (Option Menu selection)
- A Water Owner (Option Menu selection)

3. Optional push button for assigning the Account Properties (Name, Water Type and Water Owner) of the currently selected Upstream or Downstream Account to the New Account property controls described in the previous item.

4. New Supplies Properties controls for specifying properties given to the Supplies created by this operation.

- 5. A multi-line text field for display of either:
 - the reason the entered and selected values do not specify a valid creation operation, or
 - a list of the Accounts which will be created and linked (via new Supplies) if the user presses the 'OK' or 'Apply' buttons.
- 6. Push buttons: 'OK', 'Apply', and 'Close'

Previous Page

Next Page

Table of Contents Automated PassThrough Account Creation Using the Dialog

3.3 Account Selector Boxes

The Create PassThrough Account dialog box has two Account Selection boxes used to indicate an Upstream Account and a Downstream Account. Each has three option menus:

Obj (Object) Type option menu: The user selects either "All Object Types" or one of the Object Types for Objects which can have Accounts and which are represented in the model.

Object option menu: The user selects one of the Simulation Objects in the model of Object Type indicated in the Obj Type option menu.

Account option menu: The user selects one of the Accounts in the Simulation Object indicated in the Object option menu.





3.4 New PassThrough Account property specification

All of the PassThrough Accounts created by a Create PassThrough Accounts operation are given the same **Name, Water Type** and **Water Owner.** (It's OK for all of the Accounts to have the same name because only one such Account will be created on any particular Object).

These properties can be those of the selected Upstream Account, or those of the selected Downstream Account,

or any arbitrary valid name and property selection.

The name appearing in the text entry field -- which can be freely edited by the user -- is the name to be used for all new created Accounts. Pressing the "Use Upstream" or "Downstream" buttons assigns the Name, Water Type, and Water Owner of the currently selected Upstream or Downstream Account to those three entry / selection widgets. The user can then make modifications to any of those values.

Valid values for Water Type and Water Owner are defined by the user in the Accounting System Configuration.

3.5 New Supply Property specification

Newly creates Supplies (links between Accounts) will be given the default name (based on the names of the two linked Accounts) and the following properties.

- Release Type
- Destination (Type)

Valid values for these two properties indicated above are defined by the user in the Accounting System Configuration.

New Supplies Properties		
Release Type:	Flood Control	⊻
Destination:	Aggricultural	$\overline{\Sigma}$

<u>xt Page</u>

Previous Page

Table of Contents

3.6 Push Buttons: OK, Apply, Close

There are three push buttons at the bottom of the Create PassThrough Accounts dialog box.

- "OK" is enabled only if the creation operation is well-defined (see next section). Pressing OK performs the creation operation and closes the dialog box.
- "Apply" also is enabled only if the creation operation is well-defined (see next section). Pressing Apply performs the creation operation, but does not close the dialog box.
- "Close" closes the dialog box.

3.7 Enabledness of the OK and Apply Buttons

The "OK" and "Apply" push buttons

are enabled only if all of the following conditions are met.

- The selected **Upstream Account can accept a Demand** to a downstream PassThrough Account (or to the Downstream Account, if that is on an adjacent, physically linked Object).
- The selected **Downstream Account can accept a Supply** from an upstream PassThrough Account (or from the Upstream Account, if that is on an adjacent, physically linked Object).
- A path of physical links exists between the Upstream Object and the Downstream Object which are needed for the creation of Supplies connecting the indicated Accounts via new PassThrough Accounts. To determine this state, the mechanism searches for a "downstream" linked path from the Upstream Object to the Downstream Object.
- The **intervening Objects do not yet contain** an Account with the name to be used for the new PassThrough Accounts.
- The intervening Objects are of Object Types on which **PassThrough Accounts can be created.** Note that this restriction does not apply to the Upstream or Downstream Objects. That is, the selected Accounts don't have to be PassThrough Accounts.





3.8 Selection Status Area

In addition to the enabledness of the "OK" and "Apply" push buttons, a brief message about the validity of the Create PassThrough Account operation, given the current input selections, is displayed in the Selection Status Area.

Status Area text messages include:

- "No Upstream Account specified."
- "No Downstream Account specified."
- "Upstream and Downstream Accounts must be distinct."
- "Upstream and Downstream Objects must be distinct."
- "Account '<account name>' already exists"
- "No physical path exists from Upstream Object to Downstream Object."

Upstream and Downstream Objects must be distinct.	
OK Apply Close	<u>Next Page</u>
Create 3; Link 5 Accounts: 1) Mountain Storage^Bloomdido 2) Reach0^Bloomdido [Create] 3) Bifurcation0^Bloomdido [Create] 4) StorageReservoir1^Bloomdido [Create] 5) Valley Storage^Bloomdido	Previous Page Table of Contents
OK Apply Close	

If the selections specify a valid Create PassThrough Accounts operation, then the Accounts which would be created and linked (with Supplies) are indicated. (See picture, above).

3.9 Reporting Account and Supply Creation Results

During the course of the Create PassThrough Accounts operation (as a result of pressing the 'OK' or 'Apply' buttons), any detected problems will be reported as an Error in the Diagnostics Output window.

Note that this does not apply to the error conditions detected BEFORE the 'OK' or 'Apply' button is pushed -- those conditions actually prevent those button from being pushed.

The following actions are reported as Informational messages in the Diagnostic Output window:

- Creating and Linking PassThrough Accounts from "<upstream account>" to "<downstream account>" ...
- Account created: "<account name>"
- Supply created: "<supply name>" [<supply type>]

		Diagnostics Output Window bifurcation rad				
		Diagnosuus Output window – bhurcadon.nui				
<u>F</u> ile	ile Find					
<u>C</u>	Context Message					
		Model File Information:				
	Last saved on: 07-06-2004 13:11:47.					
	Last saved by "philw" using "RiverWare 4.5".					
	Creating and Linking PassThrough Accounts from "Mountain Storage^Bloomdido" to "Valley Stora					
	Account created: "Reach0^Bloomdido"					
		Account created: "Bifurcation0^Bloomdido"				
		Account created: "StorageReservoir1^Bloomdido"				
	Supply created: "Mountain Storage Bloomdido to Reach0 Bloomdido" [In/Out]					
		Supply created: "Reach0 Bloomdido to Bifurcation0 Bloomdido" [In/Out]				
		Supply created: "Bifurcation0 Bloomdido to StorageReservoir1 Bloomdido" [In/Out]				
		Supply created: "StorageReservoir1 Bloomdido to Valley Storage Bloomdido" [In/Out]				
1		4				

Previous Page

Next Page

Table of Contents