DTS 4: Grid Editor User Guide

APELON

BECAUSE TERMINOLOGY MATTERS

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Table of Contents

A. The DTS Grid Editor 4
A.1 Overview 4
A.2 Introduction 5
A.3 Display the Grid Editor Panel 7
B. Select Concepts for Edit in the Grid Editor 8
B.1 Select Concepts for Edit Using Drag and Drop 8
B.2 Select Concepts for Edit by Creating a Selected Concepts List 9
B.3 Clear All Data in the Grid Editor Table 13
B.4 Reload Grid Editor Data 13
B.5 Detail Panel and Grid Editor Concept Updates 13
C. Customize the Grid Editor Table 14
C.1 Resize the Grid Editor Panel and Table Columns 14
C.2 Remove an Individual Table Row 15
C.3 Change the Column Sort in the Grid Editor Table 16
C.4 Change the Order of the Grid Editor Columns 17
C.5 Customize the Grid Editor Columns 17
C.5.1 Remove an Individual Table Column 18
C.5.2 Customize the Table Column Headings Using the Customize Table Window 19
D. Perform Batch Edits 24
D.1 Add Concept Attribute Values in Batch Mode 24
D.1.1 Add a Synonym 24
D.1.2 Add a Property 26
D.1.3 Add a Property Qualifier 28
D.1.4 Add an Association 30
D.1.1 Add an Association Qualifier 32
D.1.2 Add a Defining Concept 34
D.1.3 Add a Defining Role 36
D.2 Delete Concept Attributes in Batch Mode 38
D.2.1 Delete a Synonym 38
D.2.2 Delete a Property 40
D.2.3 Delete a Property Qualifier 41

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D.2.4 Delete an Association 43
D.2.5 Delete an Association Qualifier 45
D.2.6 Delete a Defining Concept 47
D.2.7 Delete a Defining Role 49
D.3 Update Concept Attribute Values in Batch Mode 51
D.3.1 Update a Synonym 51
D.3.2 Update a Property 53
D.3.3 Update a Property Qualifier 54
D.3.4 Update an Association 56
D.3.5 Update an Association Qualifier 58
D.3.6 Update a Defining Concept 59
D.3.7 Update a Defining Role 61
E. Edit Individual Attribute Values 63
E.1 Copy an Attribute Value from Another Panel 63
E.2 Copy an Attribute Value Across Cells 65
E.3 Delete an Attribute 65
F. Find and Replace Attribute Value Text 67
F.1 Find Text Matches 67
F.2 Replace Property and Qualifier Value Text 68

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A. The DTS Grid Editor

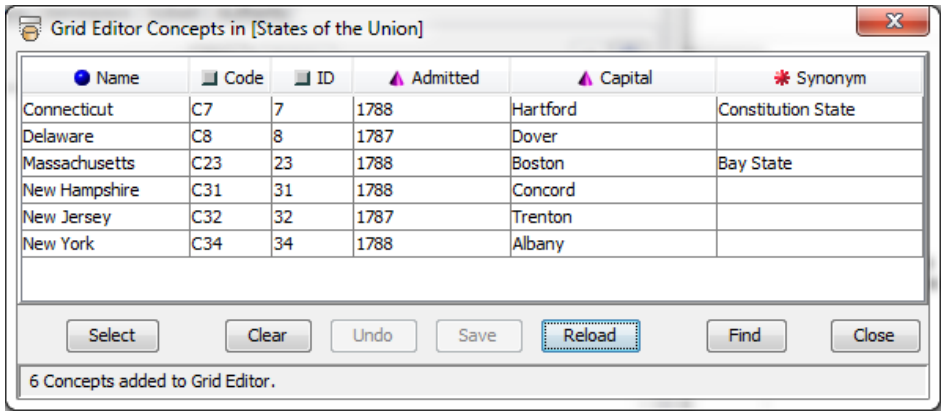
A.1 Overview

The DTS **Grid Editor** is a panel within the DTS Editor. The Grid Editor facilitates viewing and updating of terminology content by providing:

1. Convenient ways to select concepts, or terms, of interest
2. A concise, tabular view of the selected objects
3. Powerful editing capabilities that can be applied to all selected objects at once
4. An opportunity to examine changes, and undo them if desired

The Grid Editor supports concepts and terms from any namespace type: Thesaurus, Ontylog, and Ontylog Extension, although only concepts, or terms, from a single namespace can be viewed at any one time. Selected concepts/terms and their attributes are displayed in a tabular view, or grid, consisting of rows and columns. In the sections below, the use of concepts will generally be described for simplicity. Term operation is similar although with a reduced set of available attributes.

An example Grid Editor panel is illustrated below.



Each row displays a selected concept. The columns display desired attributes of those concepts: name, code, ID, synonyms, properties, associations, and for Ontylog and Ontylog Extension namespace concepts, kind, primitive/defined indicator, defining concepts and defining roles. Property and association qualifiers can also be displayed and updated.
The grid is highly configurable: it's easy to choose and order the attributes which are shown, just as it's easy to select, sort, and search through the objects which appear. Thus, review and comparison of terminology content is expedited.

You select concepts, or terms, for the Grid Editor by dragging them from other DTS Editor panels – you can browse for selections using the Tree panel, retrieve selections via the Search panel, and so on. To populate the Grid Editor, you can select a single concept, its children, and/or its descendants, in a single operation. You then can select more concepts, or remove selected concepts, repeatedly until you have exactly the concepts you want.

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Having selected a set of concepts, you can perform "batch" edits on them. You can add, delete, or replace synonyms, properties, associations, and property and association qualifiers, for all selected concepts. You can also edit defining concepts, and defining role modifiers and values for Ontylog and Ontylog Extension namespaces. In addition, you can make individual changes by updating a specific attribute entry in the table. After making changes, you still have the option of undoing them before they are saved.

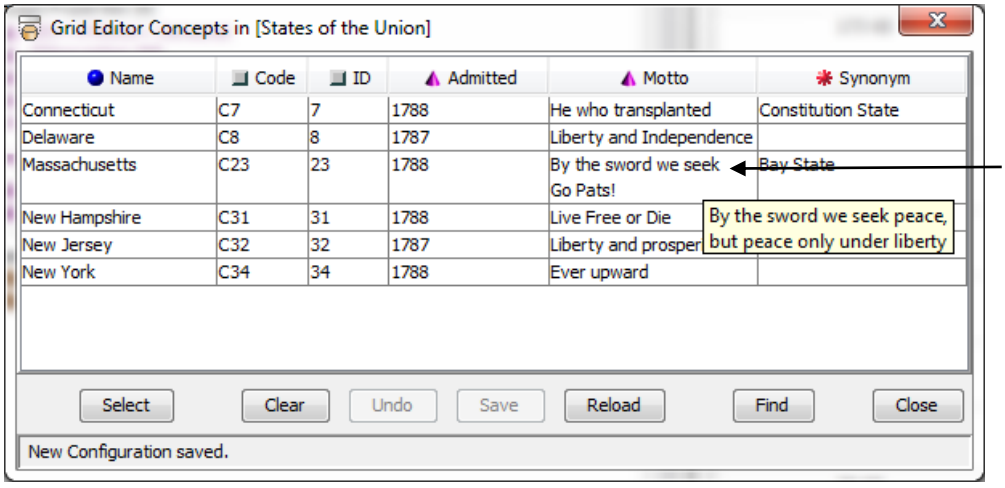
The DTS Grid Editor is a fully integrated module of the DTS Editor. It is available as a floating panel in the standard DTS layout and can be used as a layout component in any custom layout. Concepts and terms can be dragged and dropped between the Grid Editor and other DTS Editor panels. After changes are saved using the Grid Editor, those changes are reflected immediately in other panels, and vice versa.

The remainder of this document presents the capabilities and operation of the DTS Grid Editor in full detail.

A.2 Introduction

The Grid Editor provides a convenient way to view, and edit, selected attributes on a set of concepts (or terms). If you need to perform an identical attribute modification to these selected concepts (e.g., addition of a property or modification of a defining concept) you can perform these edits to all the concepts using the Grid Editor's batch edit capability. With the Grid Editor, you can select the concepts on which you want to add, delete, or modify an attribute, then save the edits to the namespace all at once.

You first select all the concepts of interest. You then review these concepts in a customizable Grid Editor table, which reflects only those concept attributes that you've selected for view. See the Grid Editor panel below.



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The concept attributes you select for display are named in the table's column headings; the rows represent corresponding attribute values. The concept attributes (i.e., column headings) shown are:

- Concept **Name**
- Concept **Code**
- Concept **Id**
- **Admitted** Property
- **Motto** Property
- **Synonym** Synonym

When there are multiple instances of an attribute, as in the **Motto** property for **Massachusetts**, the value of each instance is displayed on a separate line. If the attribute value is too long to fit in the cell (e.g., the **Connecticut** or **Massachusetts Motto**), the value is truncated. Also, if the value is multi-line (contains a new line character), only the first line of the value is displayed. The complete value is always available in the tool tip associated with the attribute instance (see example above).

When you are satisfied with the concepts you've selected, you then can perform an attribute edit to all selected concepts in one step. You can modify the following attributes using the Grid Editor:

- Synonyms (concepts only)
- Properties
- Property Qualifiers
- Associations
- Association Qualifiers
- Defining Concepts
- Defining Role Modifiers and Values

Edits can be performed on individual attributes, in "batch" (applying the same edit to multiple concepts), and as a result of Find and Replace.

All of your pending Grid Editor changes are highlighted in italics for your review until you save the changes to the namespace. No namespace updates occur until you explicitly initiate them.

You can use the Grid Editor to add qualifiers to concept (and term) properties or associations, and to edit or delete existing assigned qualifiers.

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Follow the procedures discussed in this guide to select concepts within a namespace, customize the display of attributes and perform attribute value edits using the Grid Editor panel.

A.3 Display the Grid Editor Panel

To display the Grid Editor panel in the standard DTS Editor layout, select the **Tools | Grid Editor** menu option, or click on the Grid Editor icon in the Editor's Tool bar (see screen shot below).

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B. Select Concepts for Edit in the Grid Editor

You have two options for selecting the namespace concepts (or terms) which you want to view or edit in the Grid Editor. Each option is discussed below.

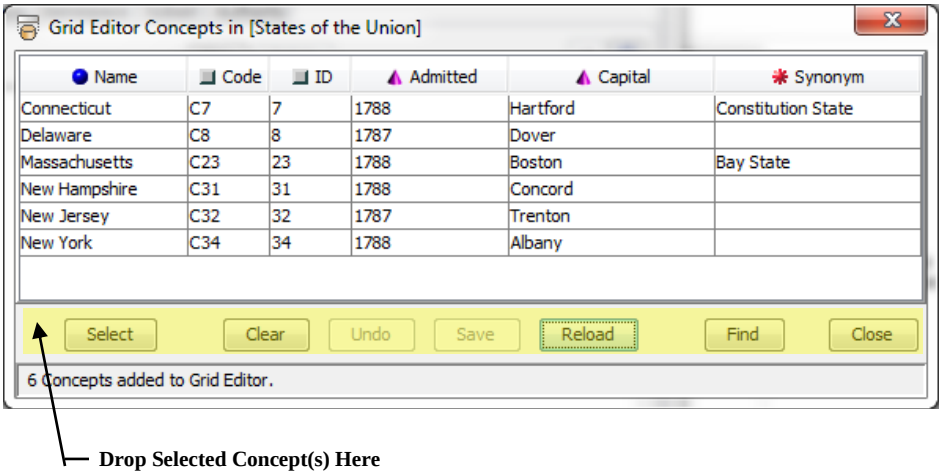
B.1 Select Concepts for Edit Using Drag and Drop

You can drag concepts from other panels displayed in the DTS Editor window, then drop them directly onto the Grid Editor panel.

From one or more of the other displayed panels (e.g., the Tree panel, Detail panel, Search panel) select the concept(s) you want to display. To select multiple concepts, use the standard Windows selection parameters to highlight the concepts prior to dragging them.

Drag the selected concept(s) to the Grid Editor panel, then drop them anywhere onto the button area at the bottom of panel (see screen shot below).

Each concept you drop will be added to the Grid Editor table. The number of concepts added to the table will be shown in the message area at the bottom of the panel. This number could be less than the number of concepts dropped if one of the concepts had already been loaded.



The first concept (or term) dropped in the Grid Editor defines the *active namespace* of the Grid. This namespace will be shown in the title bar of the panel (see example above). Subsequent drops must be of the same object type (concept or term) and namespace.

The first time a namespace is made active, the default column configuration is loaded. For Thesaurus namespaces this is the **Name**, **Code** and **Id** columns. For Ontylog and Ontylog Extension namespaces, the **Primitive**, **Kind** and **Defining Concept** columns are also shown. See *Customize the Grid Editor Table* below for descriptions of how to add additional attribute columns to the display.

If you have not selected a specific sort order, each new concept you drag and drop is added to the end of the table list. If you have selected a specific sort (e.g., concept **Name**) each new concept

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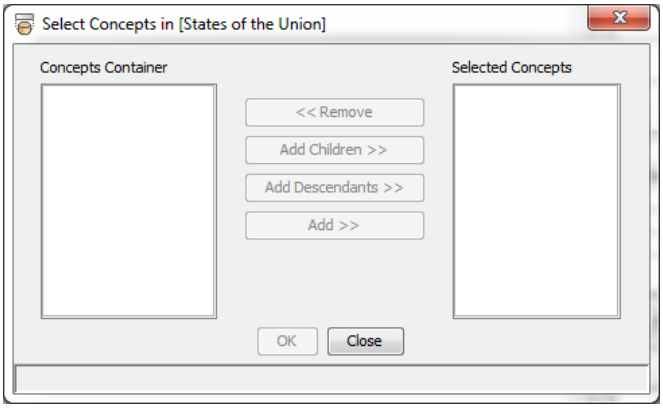
will be added based on your sort selection. *Customize the Grid Editor Table* below describes how to set the sort order of any column.

B.2 Select Concepts for Edit by Creating a Selected Concepts List

You can drag concepts from other panels displayed in the DTS Editor window to create a list of concepts. From this list you can select those concepts, or their children/descendants, you want to load into the Grid Editor table.

Click the **Select** button at the bottom of Grid Editor panel (see screen shot above). The Select Concepts floating window displays.



The Select Concepts window consists of two areas:

- The **Concepts Container** area on the left is where you drag concepts (from other displayed panels) that you want to consider for loading into the table. The Concepts Container is a "holding area" for concepts to be considered for loading.

- The **Selected Concepts** area on the right represents those concepts you've selected, from either the **Concepts Container** list or from other displayed panels, to load into the Grid Editor table.

To load concepts into the **Concepts Container** list, select the concept(s) from one or more other panels displayed on the DTS Editor window (e.g., Tree panel, Detail panel, Search panel), drag those concepts to the **Concepts Container** area in the Select Concepts window, and drop them into the area. Each concept you select is added to the area's list. See the example below.

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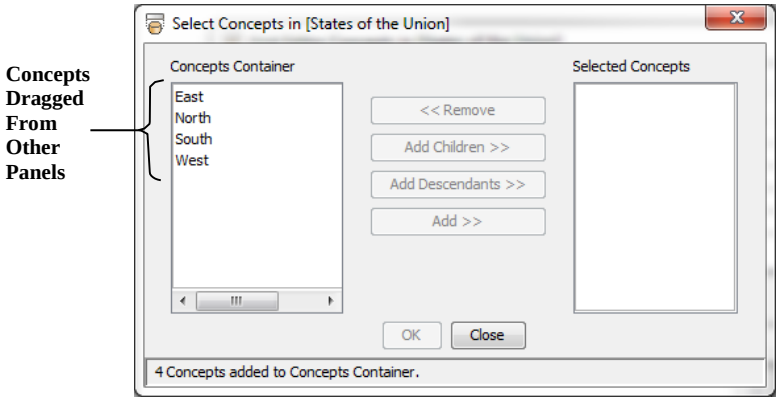
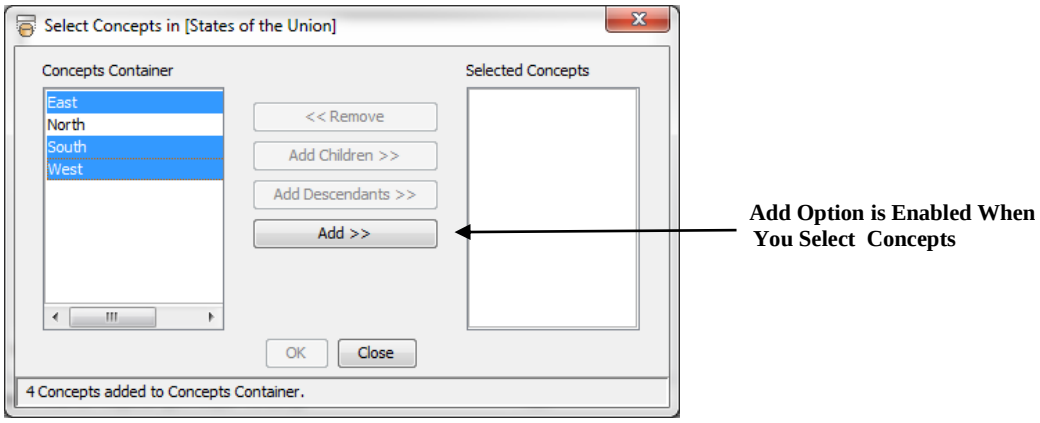


You now create your **Selected Concepts** list; this list represents the concepts you want to load into the Grid Editor table. You create this list by selecting concepts from the **Concepts Container** list, and/or by dragging and dropping concepts from other displayed DTS Editor panels.

To select multiple concepts from the **Concepts Container** list, use the standard Windows selection procedures to select adjacent and/or nonadjacent concepts. The **Add** option becomes enabled (note that **Add** is the only option that is enabled when you select multiple concepts).



Click **Add** to add the highlighted concepts to the **Selected Concepts** list (note that these concepts are removed from the **Concepts Container** list).

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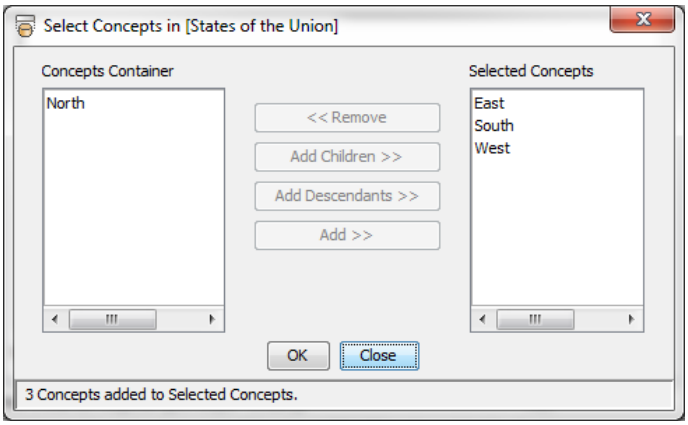
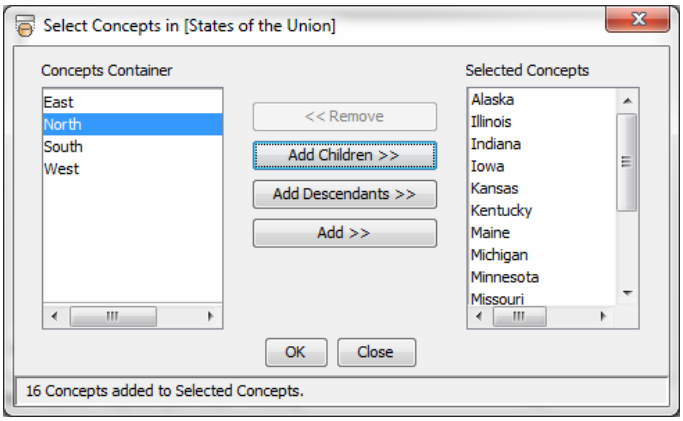


For each individual concept you select from the **Concepts Container** list, you can add all of that concept's children or descendants (recursive children) to the **Selected Concepts** list. Note that only the children or descendants are added to the **Selected Concepts** list (i.e., the concept from the **Concepts Container** is not added).

To add only a concept's children to the **Selected Concepts** list, select the concept in the **Concepts Container** area and click the **Add Children** option.

In the example below, the sixteen children of the concept **North** were added to the **Selected Concepts** list.



To add all selected concept's descendants to the **Selected Concepts** list, highlight the concept in the **Concepts Container** area and click the **Add Descendants** option. The maximum number of children or descendants you can add is 2000.

The **Selected Concepts** list can be a combination of concepts that you add from the **Concepts Container** list, as well as concepts that you select from other displayed panels.

In the following illustration, **Alabama** and **Florida** were dragged from the Tree panel and dropped into the **Selected Concepts** list.

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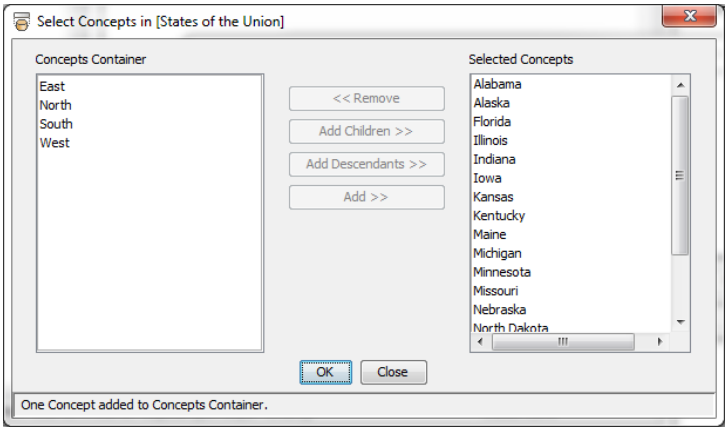
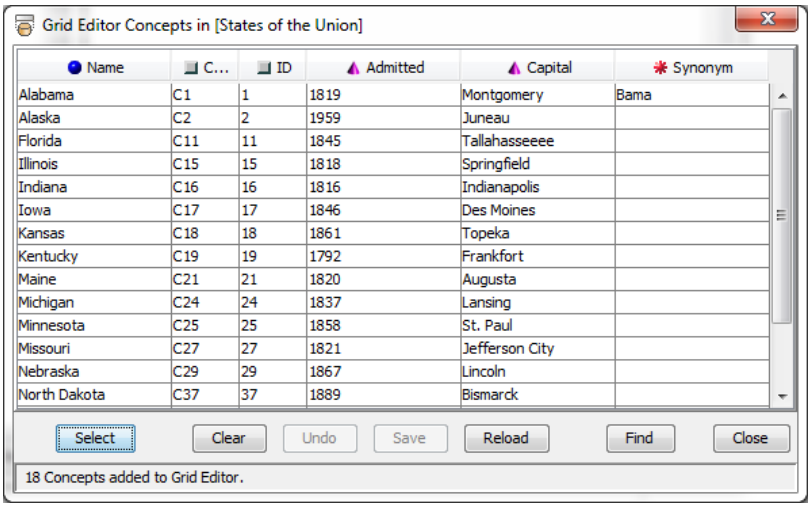


To remove one or more concepts from the **Selected Concepts** list, use the standard Windows selection procedures to select adjacent and/or nonadjacent concepts. Click **Remove** to delete the concepts from the **Selected Concepts** list and put them back in to the **Concepts Container** list.

If you decide you do not want to load the concepts in the **Selected Concepts** list into the Grid Editor panel, click **Close**. A message window displays to indicate that you selected no concepts for the Grid Editor table. Click **OK** to continue.

To load the concepts in the **Selected Concepts** list into the Grid Editor, click **OK** on the Select Concepts window. The Grid Editor will load these selected concepts into the table, and the number of concepts added successfully will be displayed in the message area at the bottom of the panel.



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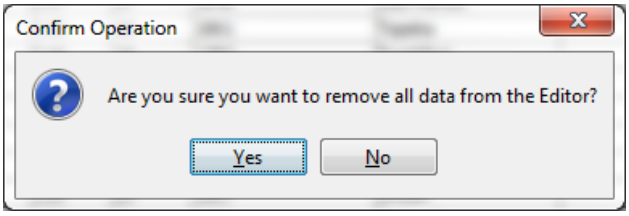
B.3 Clear All Data in the Grid Editor Table

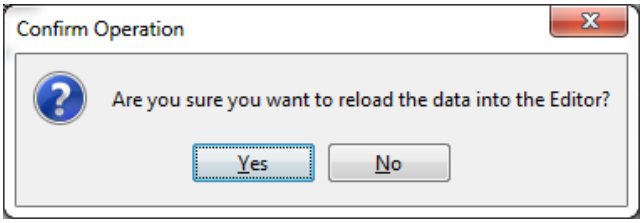
Click **Clear** in the Grid Editor button panel to remove all concepts/terms from the Grid Editor table display. This also clears the *active namespace*. The following confirmation window displays:



Click **Yes** to remove all concepts from the table. Click **No** to leave all listed concepts intact.

B.4 Reload Grid Editor Data

Click **Reload** in the Grid Editor's button panel to reload the table's concepts/terms and their attributes from the namespace. The following confirmation window displays:

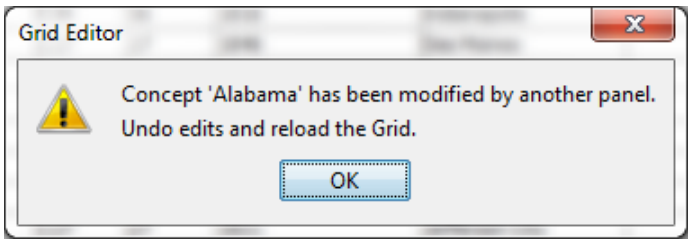


Click **Yes** to reload the concept/term data into the table. Click **No** to leave the data unchanged.

B.5 Detail Panel and Grid Editor Concept Updates

If the concept on which you save attribute edits in the Grid Editor panel also is in the DTS Detail panel, the concept instance in the Detail panel is updated automatically to reflect those edits (provided there are no **unsaved** Detail panel edits for the concept).

If a concept which is loaded in the Grid Editor is modified in the Detail panel, a message similar to the below is displayed informing you of the update. You may wish to reload the concepts in the table to maintain consistency (see section above).



Click **OK** to continue your work.

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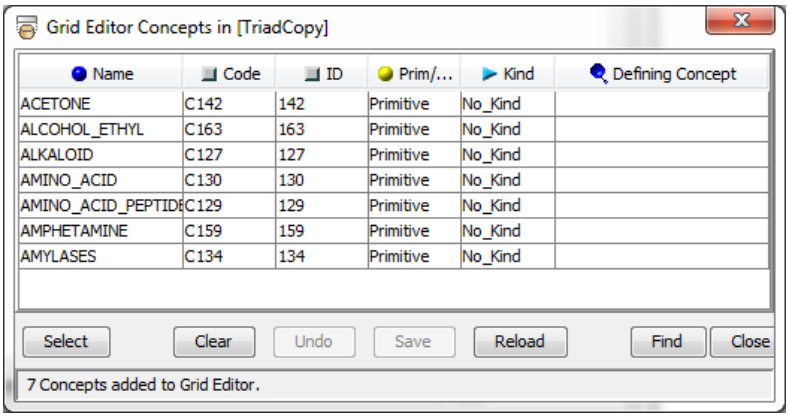
C. Customize the Grid Editor Table

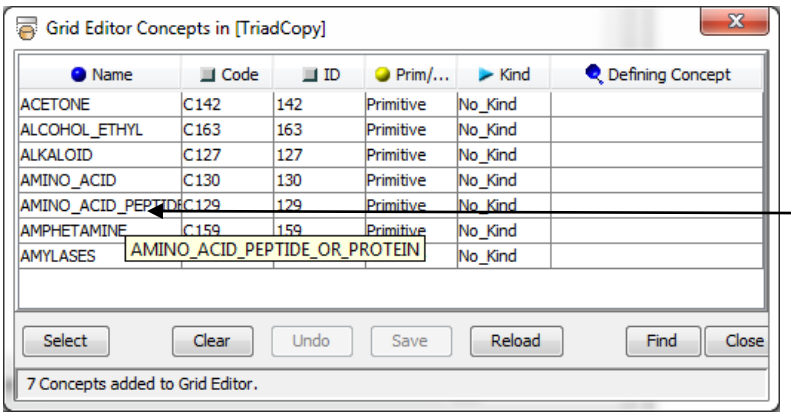
The Grid Editor supports a number of methods to customize the table display. In addition to changing the size of the table and its columns, you can sort the selected concepts, change the order of columns, and add and remove columns. The sections below describe these options.

C.1 Resize the Grid Editor Panel and Table Columns

When data from the concepts you selected first populates the columns in the Grid Editor table, the column cells may not accommodate the included data.



If you position the cursor pointer over any individual cell in the table, a tool tip displays the complete value for the data. See example below.



Cursor Positioned Over Cell Containing Concept Name

You can also resize the columns to accommodate the data displayed in the cells, and also resize entire the Grid Editor panel itself, as necessary. In the following illustration, the entire panel was resized, along with the individual columns.

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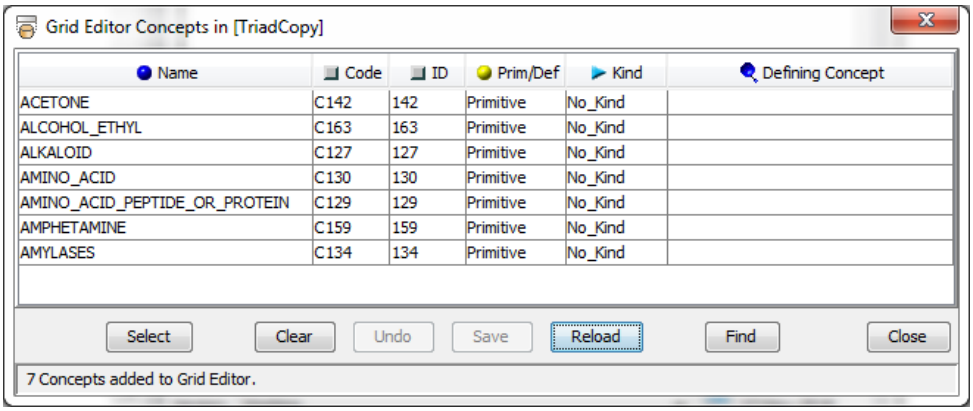
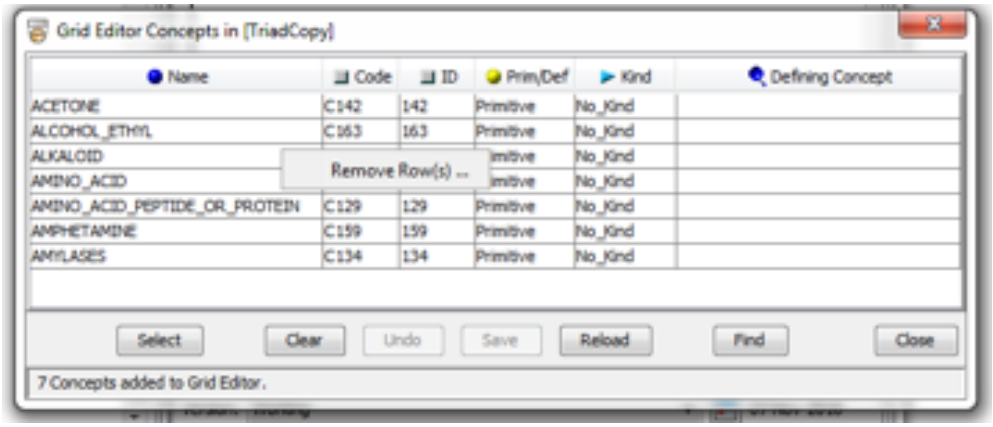
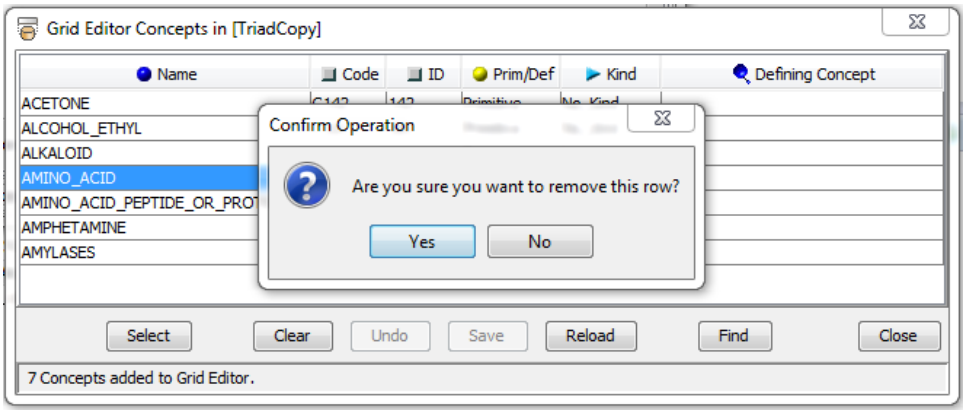


C.2 Remove an Individual Table Row

You can remove a single row of the table by right-clicking on the **Name** cell of the row you want removed and selecting the **Remove Row(s)** option.



The selected **Name** cell will be highlighted and a confirmation window will be shown.



Click **Yes** to remove the highlighted row from the table or **No** to retain the table's current contents.

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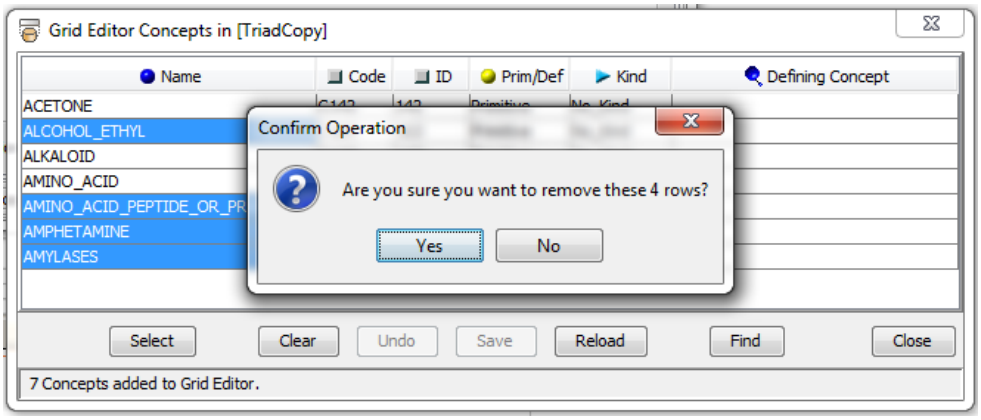
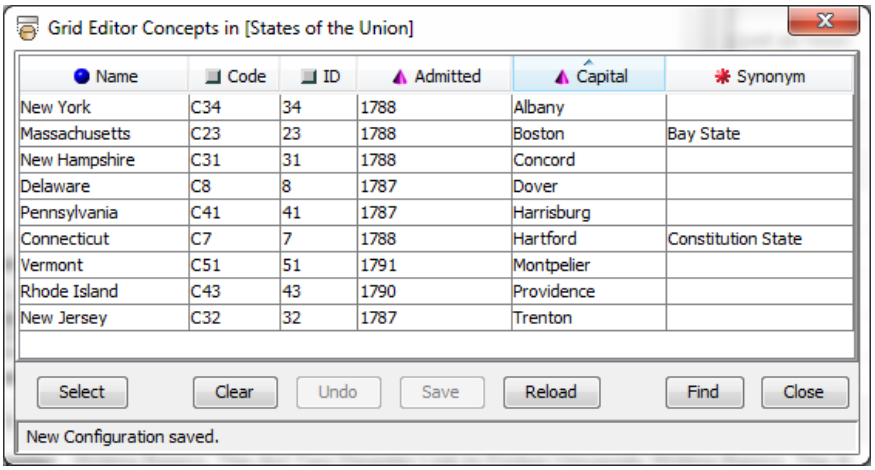
You can also remove multiple rows from the table. Start by using standard Windows selection procedures to highlight adjacent and/or nonadjacent **Name** cells, then right-click in the **Name** column and select the **Remove Row(s)** option.



Click **Yes** to remove the highlighted rows from the table or **No** to retain the table's current contents.

C.3 Change the Column Sort in the Grid Editor Table

You can change the order of the listed concepts/terms by setting a sort on an attribute column. To set the sort, click in the column header for the attribute on which you want to base the sort. For example, click on the **Capital** heading to sort by state capitals (ascending order).



Note the small up-arrow at the top of the column heading. Click the **Capital** header again to change the sort order to descending, or click another column heading to change the sort entirely.

All sorts are performed alphabetically. If an individual cell contains multiple values, such as multiple property instances, the values within the cell are generally sorted in ascending alphabetical order.

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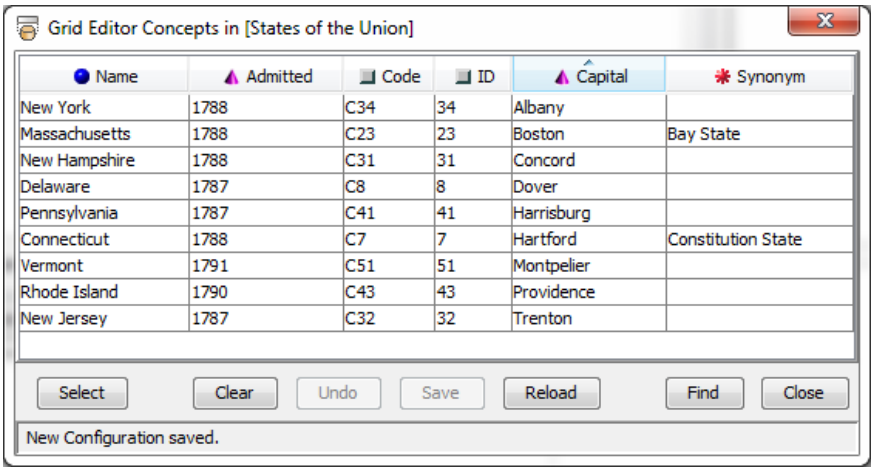
After a sort selection has been made, the new sort state is saved in the Grid Editor's configuration for the namespace.

C.4 Change the Order of the Grid Editor Columns

Change the order of the Grid Editor table columns by dragging a column header to the desired location. For example, in the example below, the **Admitted** column has been dragged to appear immediately after the **Name** column.



After a column has been moved, the new column order is saved in the Grid Editor's configuration for the namespace.

C.5 Customize the Grid Editor Columns

The Grid Editor maintains a table *configuration* for every object/namespace combination that has ever been loaded. This configuration contains the selected attribute columns, the column order and the primary sort column/order (if any). Whenever any of these display parameters are changed, the saved configuration is updated.

When concepts or terms from a new namespace (one not previously seen by the Grid Editor) are loaded, the Grid Editor creates a new configuration. The following attributes are the default columns for a Thesaurus namespace:

- Concept (or Term) **Name**
- Concept (or Term) **Code**
- Concept (or Term) **Id**

For concept tables in Ontylog or Ontylog Extension namespaces, the following additional attributes are part of the default configuration:

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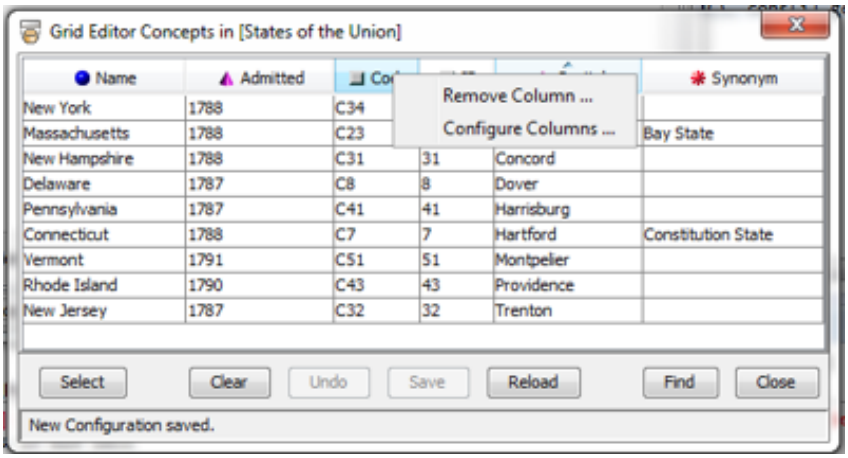
- **Prim**itive/**Def**ined Indicator
- **Kind**
- **Defining Concept**

Except for the **Name** column which must always be present, you can tailor the table to include the concept attributes you wish to view or edit. Follow the procedures outlined in the following sections to customize the Grid Editor table with your desired columns (i.e., concept/term attributes).

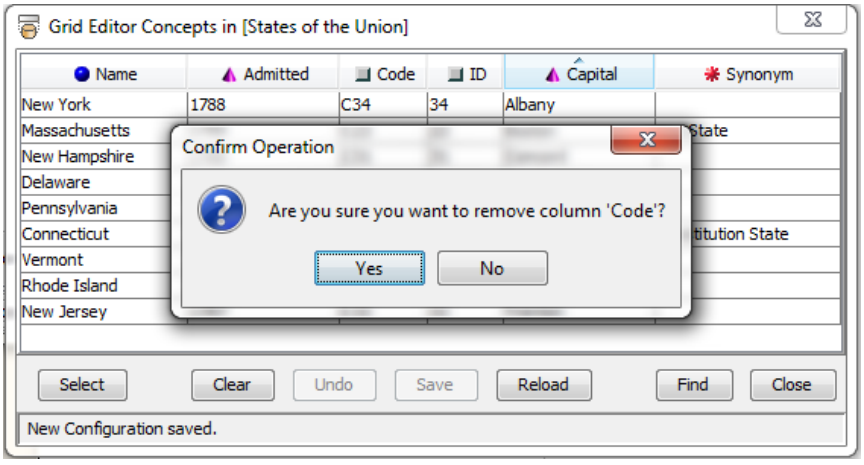
C.5.1 Remove an Individual Table Column

To remove an individual table column, right-click in the header for the column (i.e., the concept/term attribute) you want to remove from the Grid Editor panel table (e.g., the **Code** column). Note that the **Name** column is required in the table, and is not removable.

When the popup menu appears, click **Remove Column**.



A confirmation dialog will be shown:



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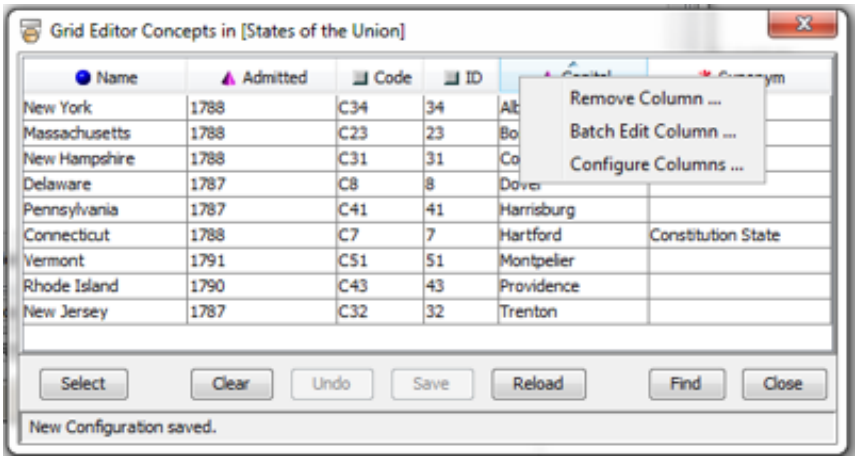
Click **Yes** to remove the column from the table or **No** to retain the table current contents.

C.5.2 Customize the Table Column Headings Using the Customize Table Window

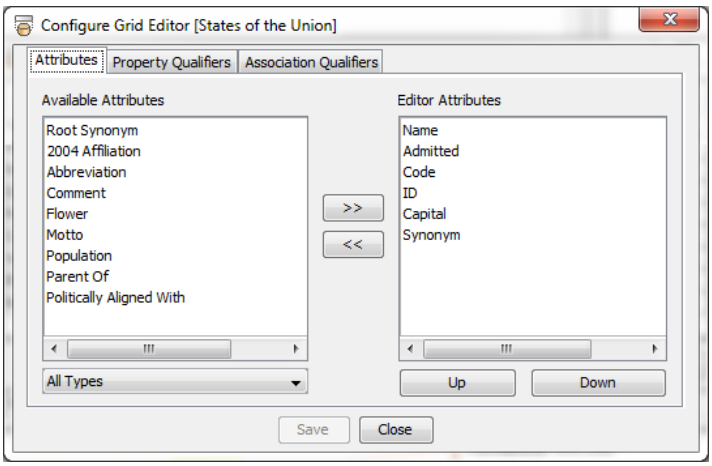
You can customize the Grid Editor table to show columns for the specific attributes that you want, in the order that you want.

Right-click on any of the column header in the Grid Editor table.

When the popup menu displays, click **Configure Columns**.



The Configure Grid Editor window displays. This window has three tabs – **Attributes, Property Qualifiers** and **Association Qualifiers**. The first tab selects the primary attributes you want to show in table columns. The other two tabs select any associated qualifiers to be displayed.



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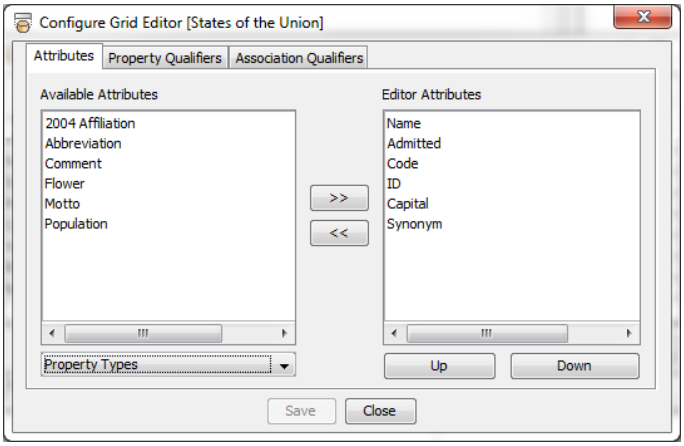
a. Customize the Display of Attribute Columns

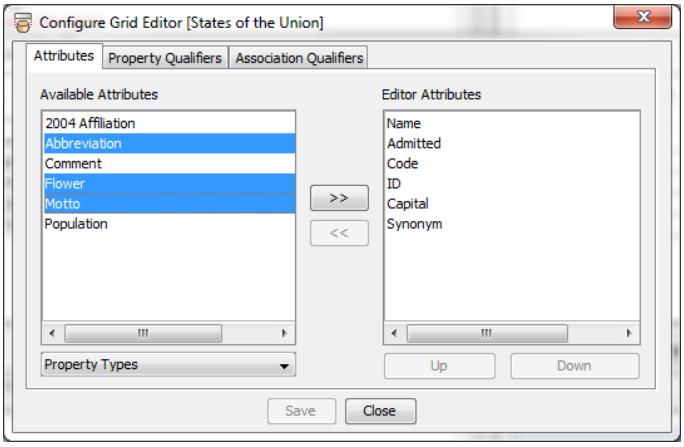
When the window first displays, the **Attributes** tab is selected. In this tab, the **Editor Attributes** area on the right side of the window lists the attributes/columns currently selected for the Grid Editor table.

The **Available Attributes** area on the left lists all of the synonym types, property types, role types (if an Ontylog namespace is active), and association types that exist within the active Grid Editor namespace and are not currently being displayed. Any of these attributes can be selected as columns for the Grid Editor table.

You can filter the items in the **Available Attributes** list in order to simplify item selection. The value in the combo box below the **Available Attributes** area selects the attribute type(s) to be displayed. **All Types** is the default. Select another attribute type (e.g., **All Properties**) from the dropdown field to restrict the **Available Attributes** list to attributes of that type.



To add one or more additional attributes as columns for the Grid Editor table, use the standard Windows selection procedures to select adjacent and/or nonadjacent attributes.



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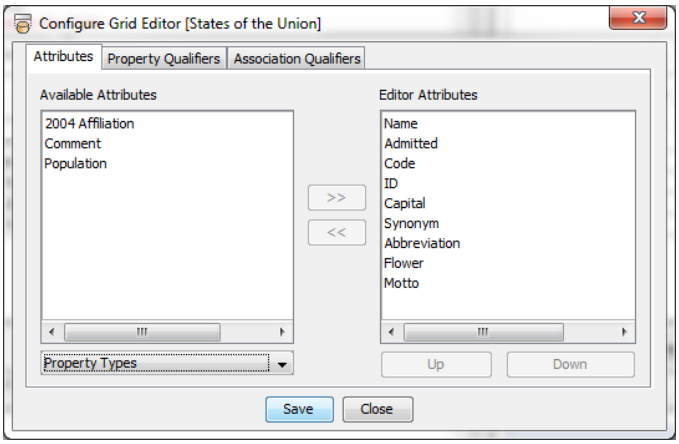
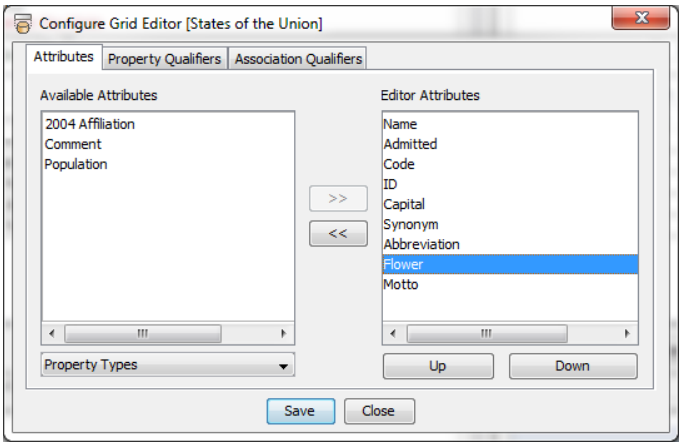
After the attributes are selected, the >> button becomes enabled. Click >> to add the selected attributes to the **Editor Attributes** area on the right side of the window. These are now potential new table columns.



The added attributes are removed from the **Available attributes** list on the left.

If you decide that you added one or more of the attributes in error, you can remove it as a potential column. Highlight the attribute; the << button becomes enabled.



Click << to remove the selected attribute from the **Editor Attributes** list. The attribute is added back into the **Available Attributes** list on the left side of the window.

To reposition a potential column, click the attribute you want to move in the **Editor Attributes** area on the right. The attribute is highlighted, and the **Up** and **Down** options become enabled.

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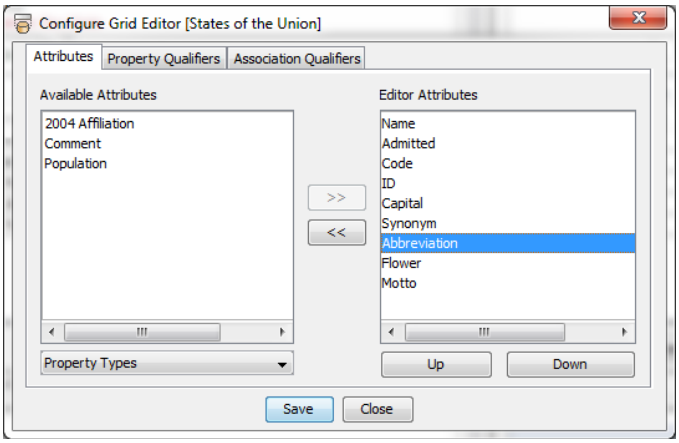
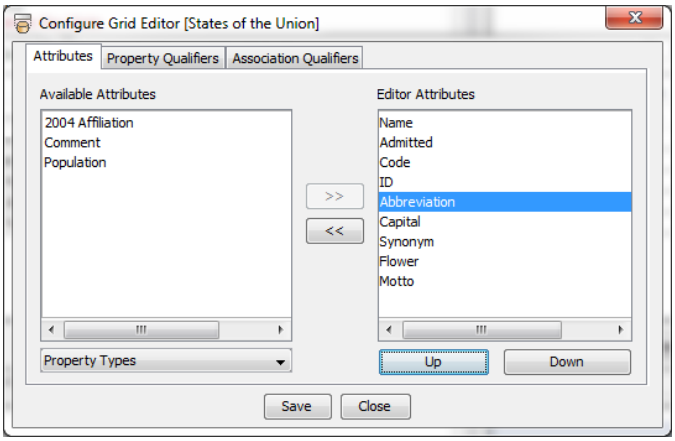


Click **Up** to position the attribute ahead (to the left) of other columns in the Grid Editor table. Click repeatedly until the attribute is in the desired position.



Click **Down** to position the column heading below (to the right of) other columns in the Grid Editor table.

After you have selected the desired attribute column headings and their position in the Grid Editor table, click **Save** to update the table format. If you decide not to update the table column configuration, click **Close** to close the Customize Table window without saving any changes.

This attribute column configuration is retained for future Grid Editor sessions.

b. Customize the Display of Qualifiers

The Grid Editor can also display property and association qualifiers (see example below).

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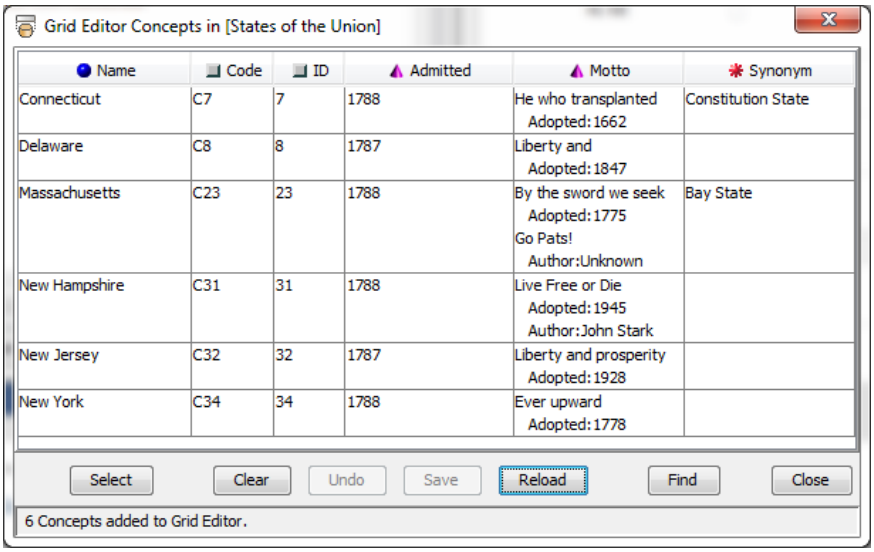
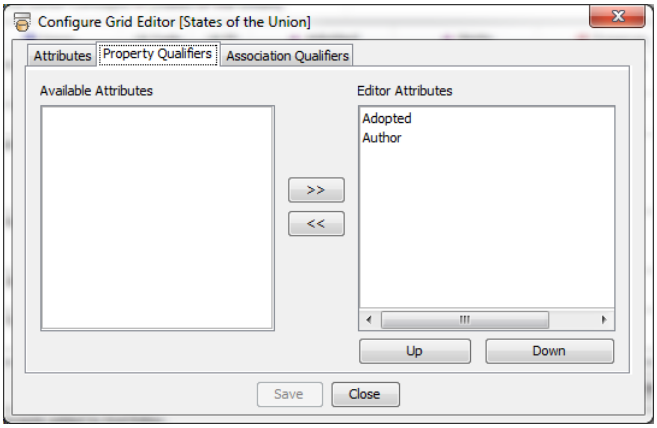


In this example, the **Adopted** and **Author** qualifiers have been added to the **Motto** attribute column. The qualifiers are indented under their respective property instance. The qualifier name and value are displayed. (These values are also available in the tool tip associated with the qualifier instance.)

The selection of a qualifier type to be displayed applies to all instances of the qualifier type. In other words, if a qualifier type is selected for display, it will be shown on any property, or association, being displayed in a Grid Editor column. It is not possible to specify that a qualifier only be displayed on a specific property type or association type.

To add property qualifiers to the Grid Editor table, select the **Property Qualifier** tab in the Customize Table window. See example below.



To add association qualifiers, select the **Association Qualifier** tab. Operation of these tabs is similar to that described above for the **Attribute** tab except that no filtering of qualifiers is supported.

Your qualifier selection is saved in the Grid Editor configuration.

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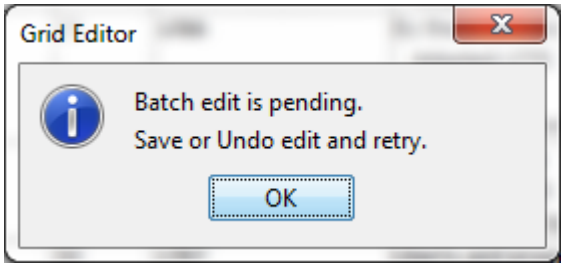
D. Perform Batch Edits

The Grid Editor's batch editing features allow you to add, edit, or delete attributes on **all** of the concepts you have loaded into the Grid Editor table. You can also add, edit, or delete qualifiers on selected properties and associations. All attribute changes can be reviewed prior to updating the namespace.

When you perform batch edits, you either must save each set of edits to the namespace, or discard the edits. The following warning message if there are any unsaved batch edits in the Grid Editor table.



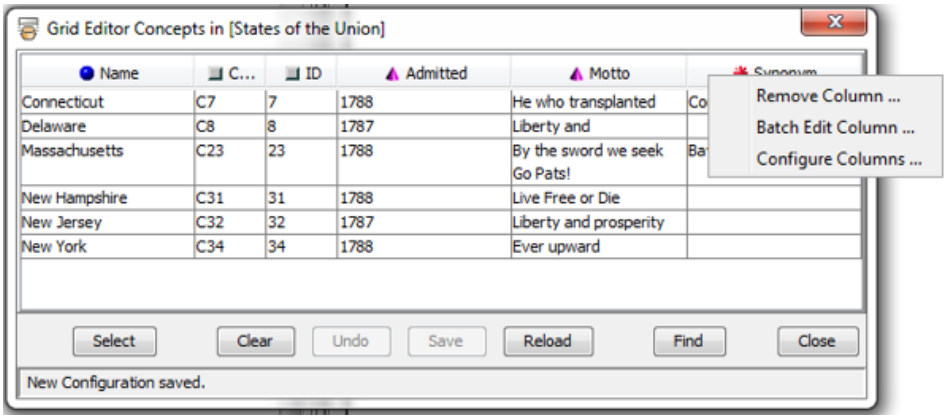
Click **OK** to continue. You will not be able to perform further edits unless you either commit the previous edits by clicking **Save** in the Grid Editor button area, or discard the edits by clicking **Undo**.

The sections below describe the steps for each attribute action.

D.1 Add Concept Attribute Values in Batch Mode

D.1.1 Add a Synonym

To add a synonym to a set of concepts, add the desired synonym type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.



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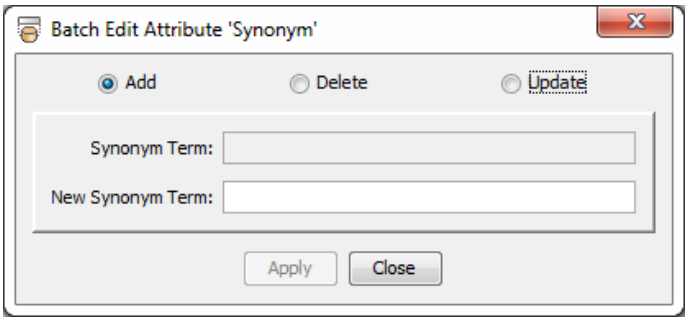
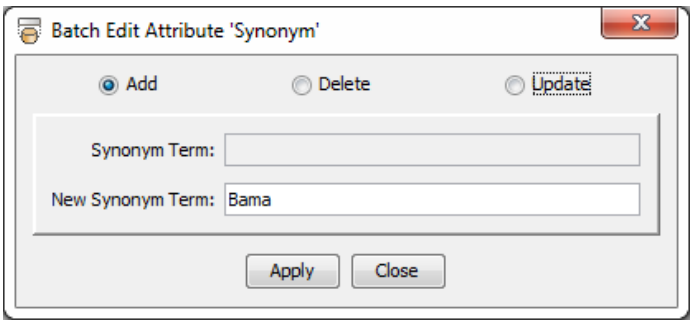
The Batch Edit Attribute window for synonyms will appear. To add new synonyms, select the **Add** radio button at the top of the panel.



The **Synonym Term** field will be disabled and the **New Synonym Term** field will be enabled.

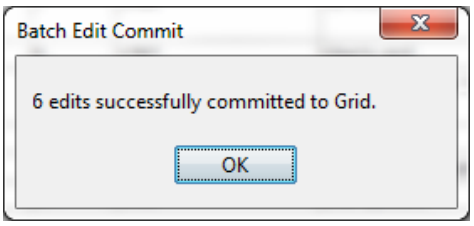
Drag a term from another DTS Editor panel, e.g. the Term tab of the Details panel, into the **New Synonym Term** field.

In the example below, the term **Bama** was dragged from the Details panel and dropped into the **New Synonym Term** field.



If you decide not to perform the attribute addition, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To add the synonym **Bama** to all concepts in the selected Grid Editor column, click **Apply**. The edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied. In accordance with DTS policy, duplicate synonyms will not be created.



Click **OK** to acknowledge application of the edits.

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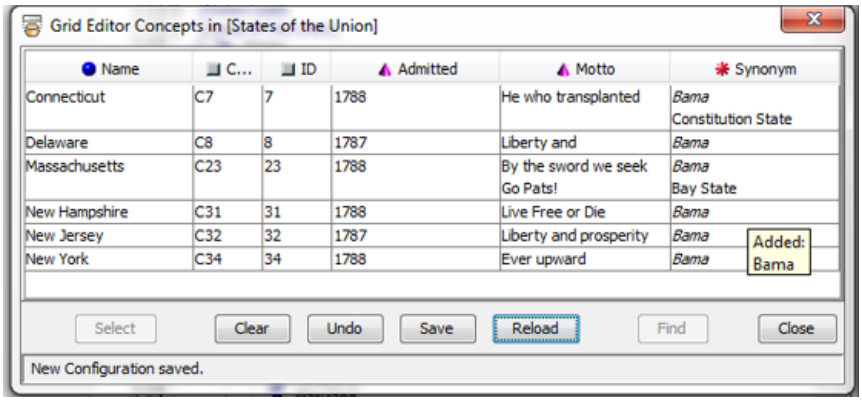
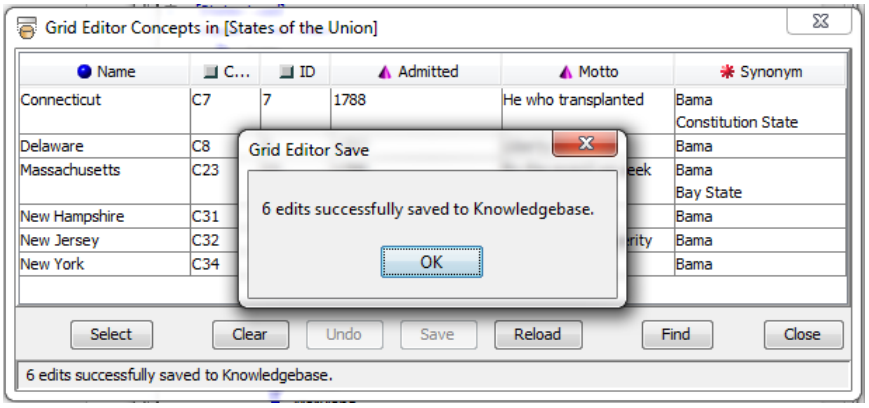
In the Grid Editor table, all instances of the new synonym are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the synonym as added.



At this point your edits have been applied to the Grid Editor table for your review, but have not yet been committed to the namespace. If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.



Click **OK** to acknowledge the namespace update. Note in the above that the italics have been removed from the edited attribute values.

If updates to one or more concepts could not be completed due to errors, an error message window will be shown. Detailed error descriptions are saved in the DTS Editor log file.

D.1.2 Add a Property

To add a property to a set of concepts, add the desired property type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

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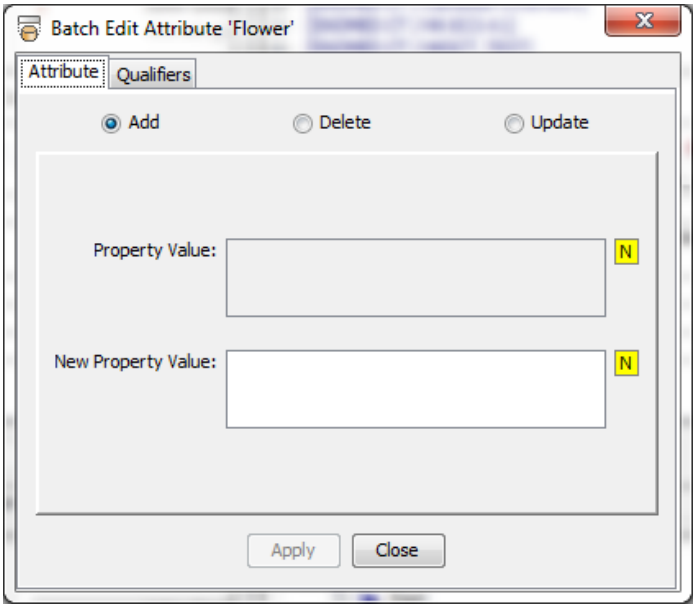
The Batch Edit Attribute window for properties will appear. This window has two tabs: one for editing the base attribute and one for editing qualifiers on the attribute. This section will focus on the first tab.

To add new properties, select the **Add** radio button at the top of the panel.



The **Property Value** field will be disabled and the **New Property Value** field will be enabled.

Note the property validator icon to the right of the fields. This icon show what value restrictions, if any, have been defined for the property: **N** for no validation, **R** for a Regular Expression validation, and **L** for a list validation. You can place your cursor over the icon for a description of the validator.

Enter the value for the new property in the **New Property Value** field. Your value must conform to the rules of any validator. Regular Expression values are validated when the **Apply** button is pressed. For list validators, the value field is a list rather than a text field. Select one of the permissible values from the list.

If you decide not to perform the attribute addition, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To add the new property to all concepts in the selected Grid Editor column, click **Apply**. As with synonym additions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

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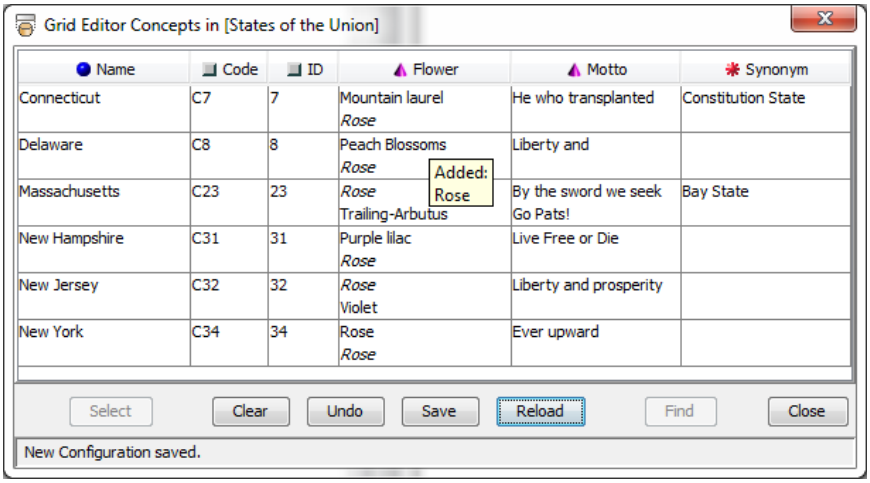

In this example, a new **Flower** property having a value of **Rose** has been added to all concepts. Instances of the new property are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the property as added.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.1.3 Add a Property Qualifier

To add a property qualifier to a set of properties, add the appropriate property type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

When the Batch Edit Attribute window for the selected property type opens, select the **Qualifiers** tab. To add qualifiers, select the **Add** radio button at the top of the panel.

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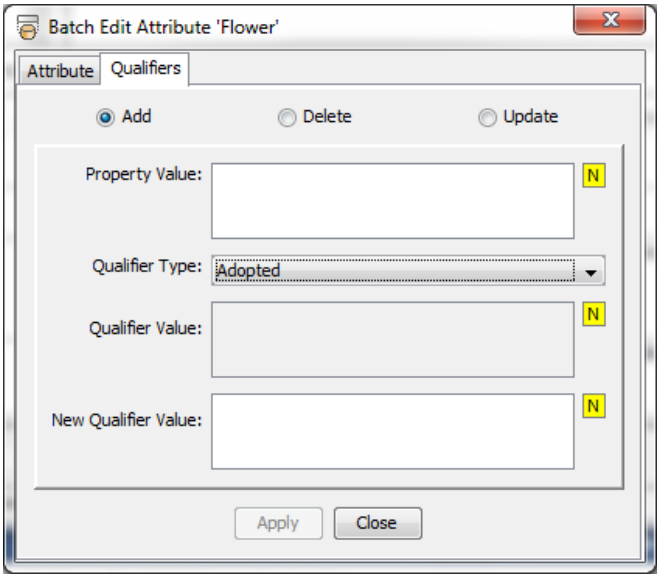

The **Qualifier Value** field will be disabled and the **New Qualifier Value** field will be enabled.

The **Property Value** field at the top of the panel specifies the value of the selected property to which a qualifier should be added. Only properties having this value will have qualifiers added. The validator icon to the right of the field defines what value restrictions, if any, have been defined for the property. Enter the desired property value or leave this field blank to add the qualifier to all properties present on the concepts.

Next select the qualifier type to be added from the **Qualifier Type** dropdown box. The validator icons next to the **Qualifier Value** and **New Qualifier Value** field will be updated. Note that only qualifier types present in the active configuration can be added.

Finally enter the desired qualifier value in the **New Qualifier Value** field. Your value must conform to the rules of any validator. Regular Expression values are validated when the **Apply** button is pressed. For list validators, the value field is a value list rather than a text field. Select one of the permissible values from the list.

If you decide not to perform the qualifier addition, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To add the new qualifier to all specified properties in the selected Grid Editor column, click **Apply**. As with property additions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

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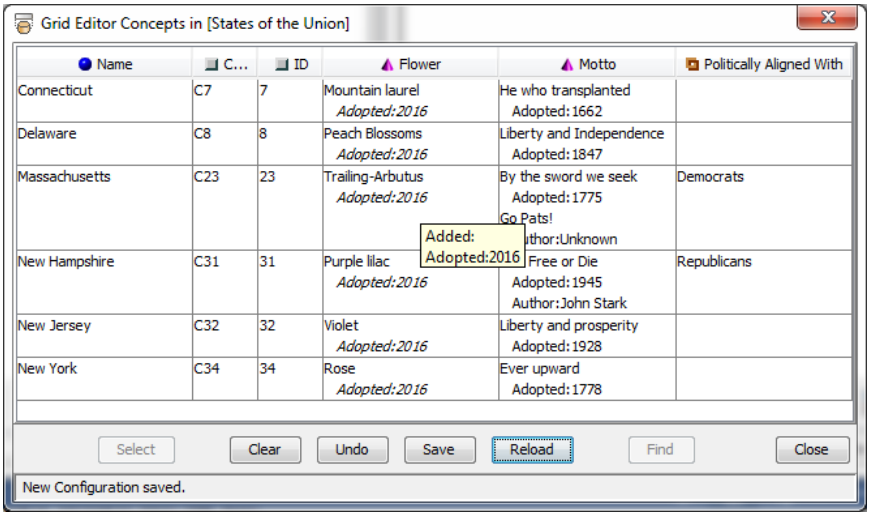

In this example, a new **Adopted** qualifier with a value of **2016** has been added to all properties in the column. Instances of the new property are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected qualifier's tooltip shows the qualifier as added.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the qualifier edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.1.4 Add an Association

To add an association to a set of concepts, add the desired association type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for associations will appear. This window has two tabs: one for editing the base attribute and one for editing qualifiers on the attribute. This section will focus on the first tab.

To add new associations, select the **Add** radio button at the top of the panel.

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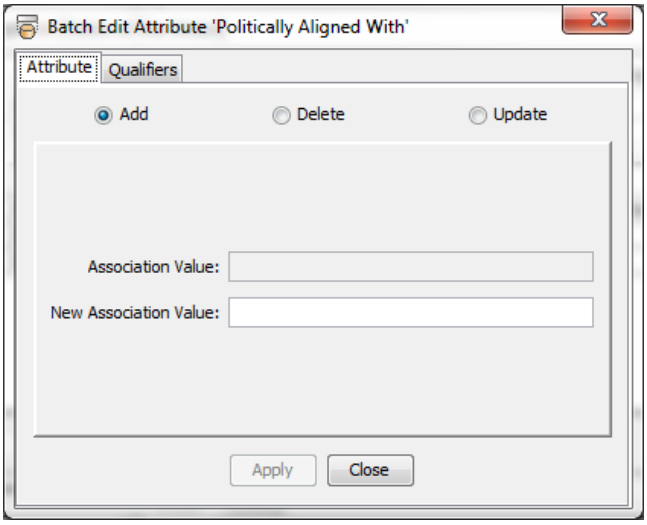
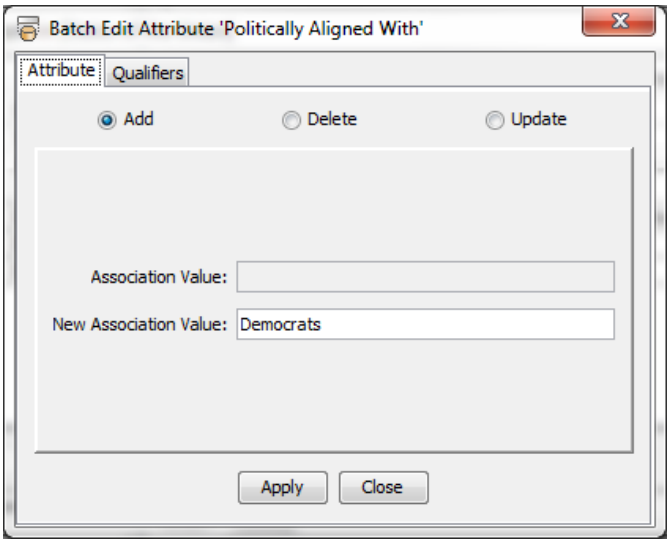


The **Association Value** field will be disabled and the **New Association Value** field will be enabled.

Drag a concept from another DTS Editor panel, e.g. the Tree panel or Concept tab of the Concept Details panel, into the **New Association Value** field.

In the example below, the concept **Democrats** was dragged from the Details panel and dropped into the New **Association Value** field.



If you decide not to perform the attribute addition, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To add the association **Democrats** to all concepts in the selected Grid Editor column, click **Apply**. As with synonym additions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

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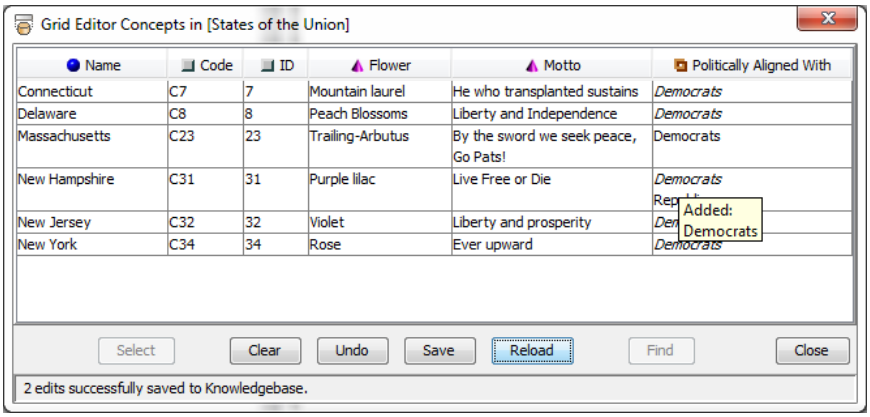

In this example, the new association has been added to all concepts, except where a similar association is present (see the **Massachusetts** row). In accordance with DTS policy, duplicate associations are not created. Instances of the new association are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the association as added.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.1.1 Add an Association Qualifier

To add an association qualifier from a set of associations, add the appropriate association type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

When the Batch Edit Attribute window for the selected association type opens, select the **Qualifiers** tab. To add qualifiers, select the **Add** radio button at the top of the panel.

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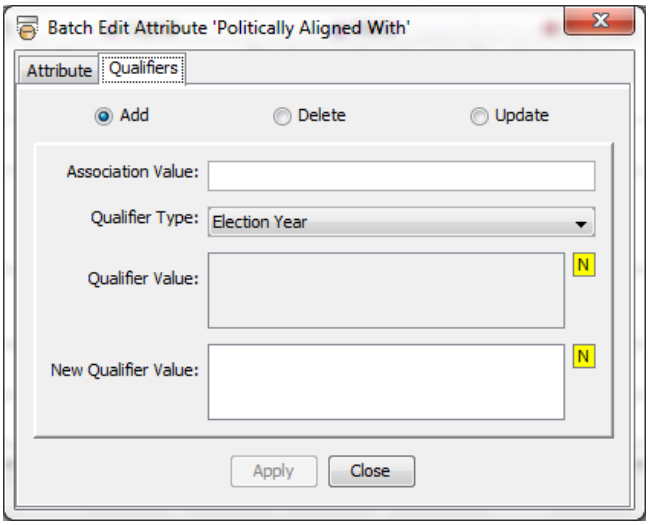

The **Qualifier Value** field will be disabled and the **New Qualifier Value** field will be enabled.

The **Association Value** field at the top of the panel specifies the value of the selected association to which a qualifier should be added. Only associations having this value will have qualifiers added. Drag a concept from another DTS Editor panel, e.g. the Tree panel or Concept tab of the Concept Details panel, into the **Association Value** field, or leave this field blank to add the qualifier to all associations present on the concepts.

Next select the qualifier type to be added from the **Qualifier Type** dropdown box. The validator icons next to the **Qualifier Value** and **New Qualifier Value** field will be updated. Note that only qualifier types present in the active configuration can be added.

Finally enter the desired qualifier value in the **New Qualifier Value** field. Your value must conform to the rules of any validator. Regular Expression values are validated when the **Apply** button is pressed. For list validators, the value field is a value list rather than a text field. Select one of the permissible values from the list.

If you decide not to perform the qualifier addition, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To add the new qualifier to all specified associations in the selected Grid Editor column, click **Apply**. As with association additions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

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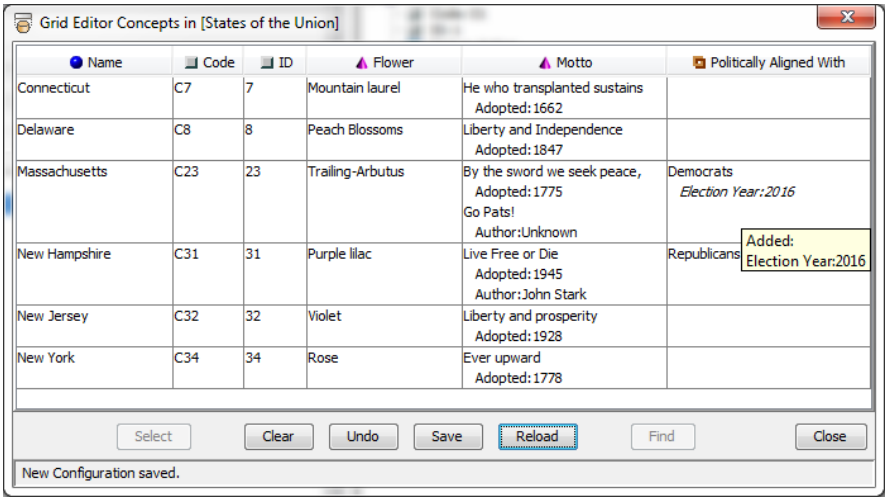


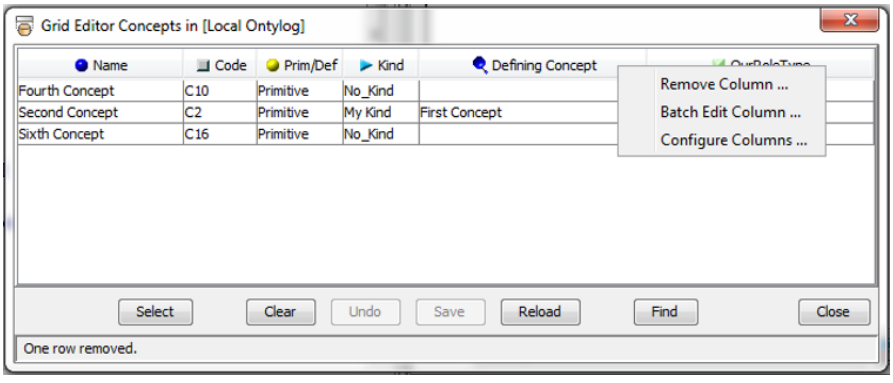
In this example, a new **Election Year** qualifier with a value of **2016** has only been added to the association with a **Democrats** value. Instances of the new qualifier are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected qualifier's tooltip shows the qualifier as added.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the qualifier edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.1.2 Add a Defining Concept

To add a defining concept to a set of Ontylog or Ontylog Extension concepts, be sure the **Defining Concept** attribute is present in Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.



The Batch Edit Attribute window for defining concepts will appear. To add new defining concepts, select the **Add** radio button at the top of the panel.

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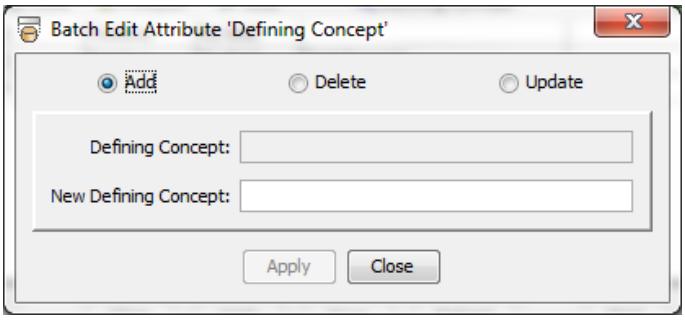
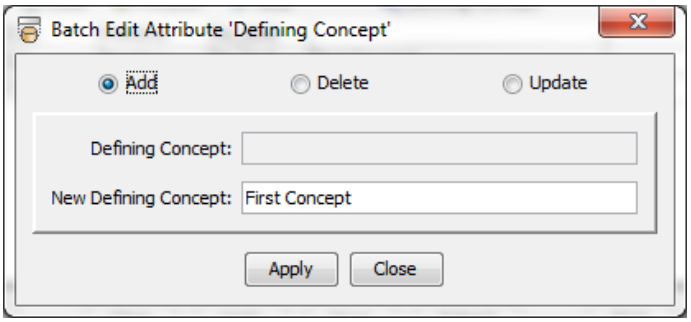


The **Defining Concept** field will be disabled and the **New Defining Concept** field will be enabled.

Drag the desired defining concept from another displayed panel (e.g., Tree panel, Concept tab of the Details panel, or Search panel) then drop it into the **New Defining Concept** field on the Batch Edit window.

In the example below, the concept **First Concept** was dragged from the Tree panel and dropped into the **New Defining Concept** field.



If you decide not to perform the attribute addition, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To add the concept **First Concept** as a defining concept to all concepts in the Grid Editor table, click **Apply**. As with other attribute additions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

Note that the concept you select as the new defining concept can only be added to concepts that have a compatible kind. Mismatches in this condition will be listed in the **Apply** confirmation dialog.

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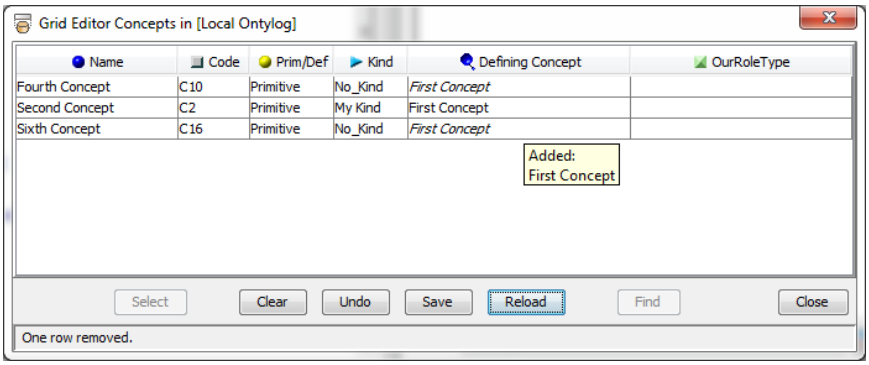


In this example, the new defining concept has been added to all concepts, except where a similar defining concept is present (see the **Second Concept** row). In accordance with DTS policy, duplicate defining concepts are not created. Instances of the new defining concept are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected defining concept's tooltip shows the concept as added.

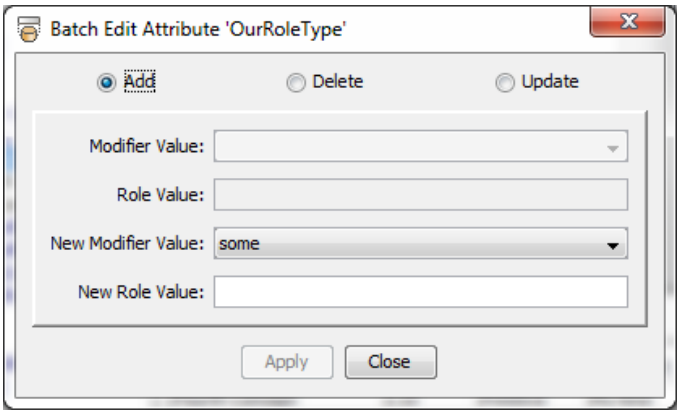
If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.1.3 Add a Defining Role

To add a defining role to a set of Ontylog or Ontylog Extension concepts, add the desired role type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for roles will appear. To add new defining roles, select the **Add** radio button at the top of the panel.



The **Modifier Value** and **Role Value** fields will be disabled and the **New Modifier Value** and **New Role Value** fields will be enabled.

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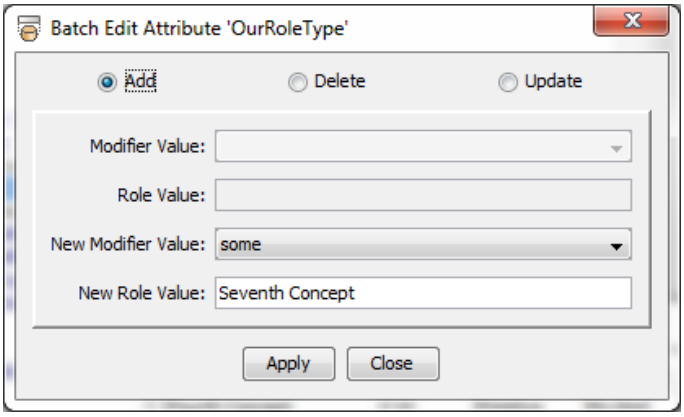
Select the desired new role modifier from the dropdown (**some** and **all** are supported) and drag the desired role value concept from another DTS Editor panel, e.g. the Tree panel or Concept tab of the Concept Details panel, into the **New Role Value** field.

In the example below, **some** was selected as the role modifier and **Seventh Concept** was dragged from the Details panel and dropped into the **New Role Value** field.

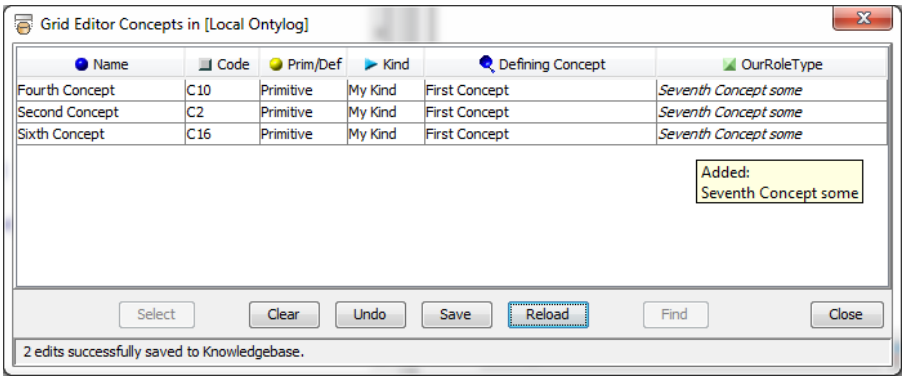


If you decide not to perform the attribute addition, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To add the defining role **some Seventh Concept** to all concepts in the selected Grid Editor column, click **Apply**. As with defining concept additions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

Note that the concept you select as the new role value must have the correct range kind as specified in the role type, and the role type can only be added to concepts that have the correct domain kind. Mismatches in these conditions will be listed in the **Apply** confirmation dialog.

.



In this example, the new role has been added to all concepts. If an equivalent role had already been present on a concept, a new one would not have been added. In accordance with DTS policy, duplicate associations are not created. Note that the role modifier, **some**, is displayed following the role value. Instances of the new association are displayed in italics to indicate that

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a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the role as added.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

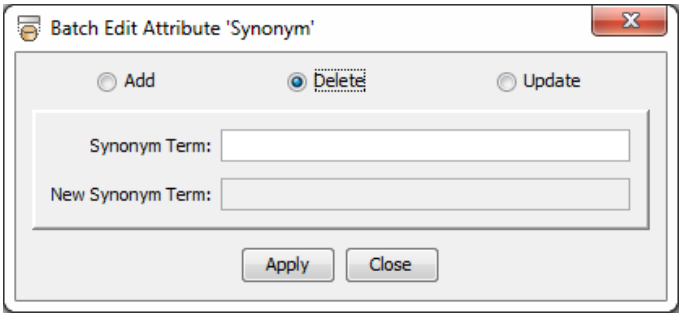
Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.2 Delete Concept Attributes in Batch Mode

D.2.1 Delete a Synonym

To delete a synonym from a set of concepts, add the desired synonym type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

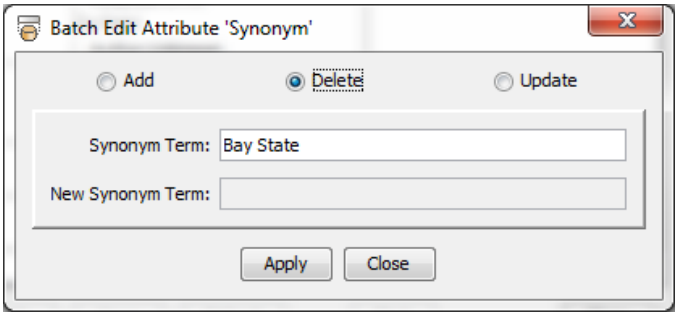
The Batch Edit Attribute window for synonyms will appear. To delete synonyms, select the **Delete** radio button at the top of the panel.



The **Synonym Term** field will be enabled and the **New Synonym Term** field will be disabled.

Drag the term for the synonym you want deleted from another DTS Editor panel, e.g. the Term tab of the Details panel, into the **Synonym Term** field. If you want to delete all instances of this synonym type, you can leave the **Synonym Term** field blank.

In the example below, the term **Bay State** was dragged from the Details panel and dropped into the **Synonym Term** field.



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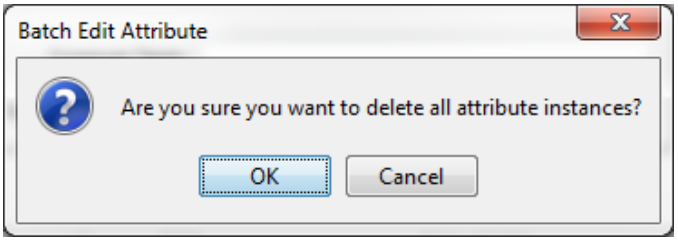
If you decide not to perform the attribute deletion, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To delete the synonym from all concepts in the selected Grid Editor column, click **Apply**.

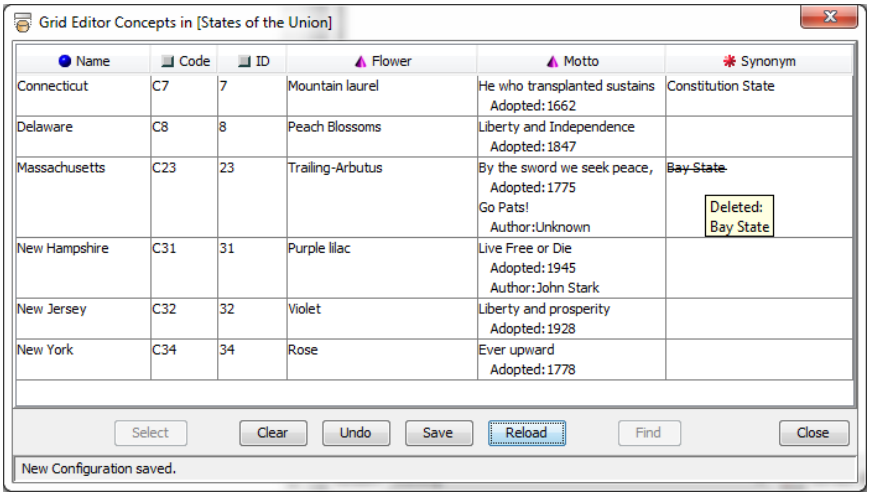
If you are deleting all instances of the synonym type, an additional confirmation window will be shown.



Click on **OK** to continue with the deletion, or **Cancel** to return to the Batch Edit window.

All instances of this synonym will be marked for deletion and a confirmation window will display indicating the number of concepts on which the edit was applied.

In the Grid Editor table, all instances of the synonym are displayed with strikethrough to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the synonym as deleted.



If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

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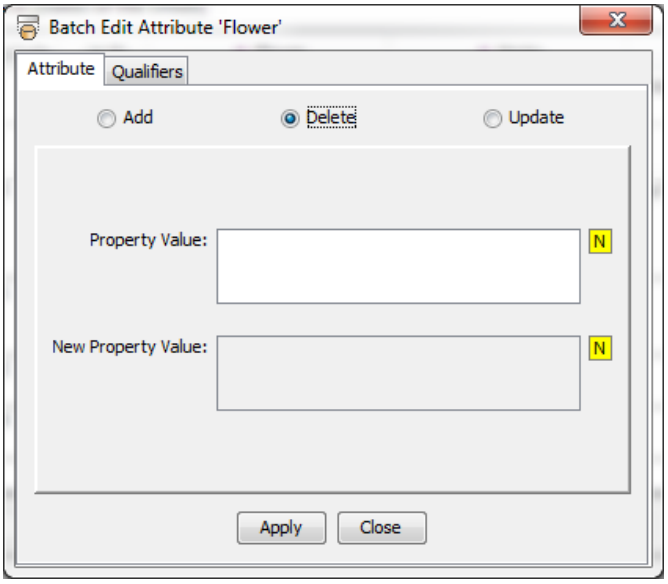
D.2.2 Delete a Property

To delete a property from a set of concepts, add the desired property type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for properties will appear. To delete properties, use the **Attribute** tab and select the **Delete** radio button at the top of the panel.



The **Property Value** field will be enabled and the **New Property Value** field will be disabled.

Enter the value for the property to be deleted in the **Property Value** field. Your value must conform to the rules of any validator. Regular Expression values are validated when the **Apply** button is pressed. For list validators, the value field is a list rather than a text field. Select one of the permissible values from the list. If you want to delete all instances of this property type, you can leave the **Property Value** field blank.

If you decide not to perform the attribute deletion, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To delete all instances of the property on all concepts in the selected Grid Editor column, click **Apply**.

If you are deleting all instances of the property type, an additional confirmation window will be shown.

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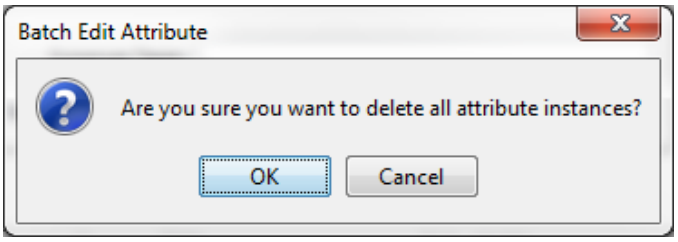
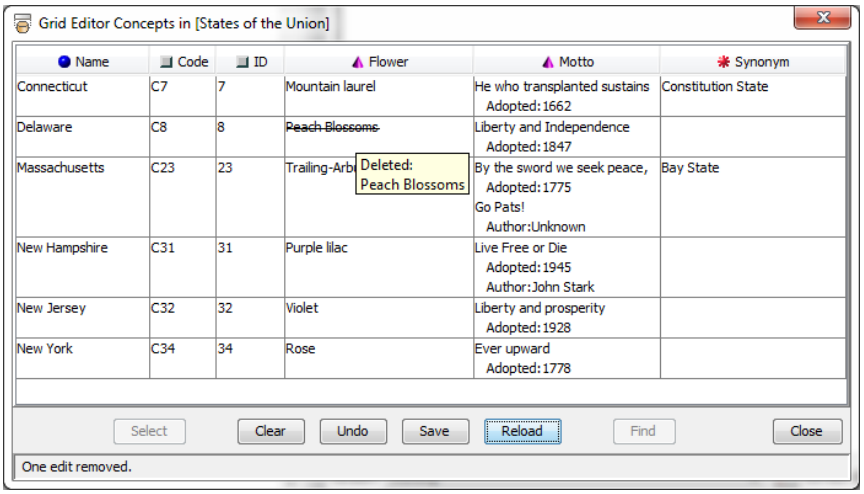


Click on **OK** to continue with the deletion, or **Cancel** to return to the Batch Edit window.

As with synonym additions, the edits are applied and a confirmation window displays indicating the number of concepts to which the edit was applied.



In this example, the **Flower** property having a value of **Peach Blossoms** has been deleted from all concepts. Instances of the property are displayed with strikethrough to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the property as deleted.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.2.3 Delete a Property Qualifier

To delete a property qualifier from a set of properties, add the appropriate property type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

When the Batch Edit Attribute window for the selected property type opens, select the **Qualifiers** tab. To delete qualifiers, select the **Delete** radio button at the top of the panel.

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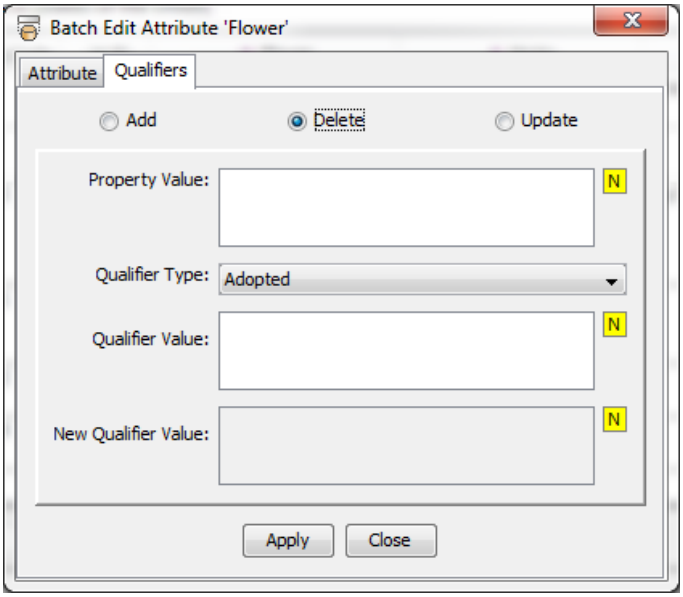

The **Qualifier Value** field will be enabled and the **New Qualifier Value** field will be disabled.

The **Property Value** field at the top of the panel specifies the value of the selected property from which a qualifier should be deleted. Only properties having this value will have qualifiers deleted. The validator icon to the right of the field defines what value restrictions, if any, have been defined for the property. Enter the desired property value or leave this field blank to delete the qualifier from all properties present on the concepts.

Next select the qualifier type to be deleted from the **Qualifier Type** dropdown box. The validator icons next to the **Qualifier Value** and **New Qualifier Value** field will be updated. Note that only qualifier types present in the active configuration can be deleted.

Finally enter the qualifier value to be deleted in the **Qualifier Value** field. Your value must conform to the rules of any validator. Regular Expression values are validated when the **Apply** button is pressed. For list validators, the value field is a value list rather than a text field. Select one of the permissible values from the list. If you want to delete all instances of this qualifier type, you can leave the **Qualifier Value** field blank.

If you decide not to perform the qualifier deletion, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To delete the qualifier from all specified properties in the selected Grid Editor column, click **Apply**.

If you are deleting all instances of the qualifier type, an additional confirmation window will be shown showing the selected qualifier name.

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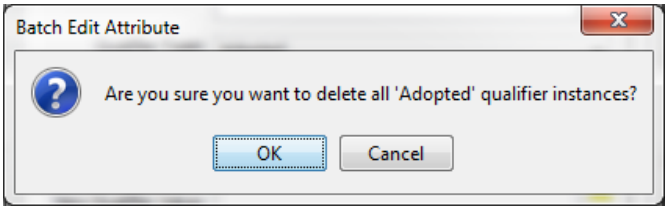
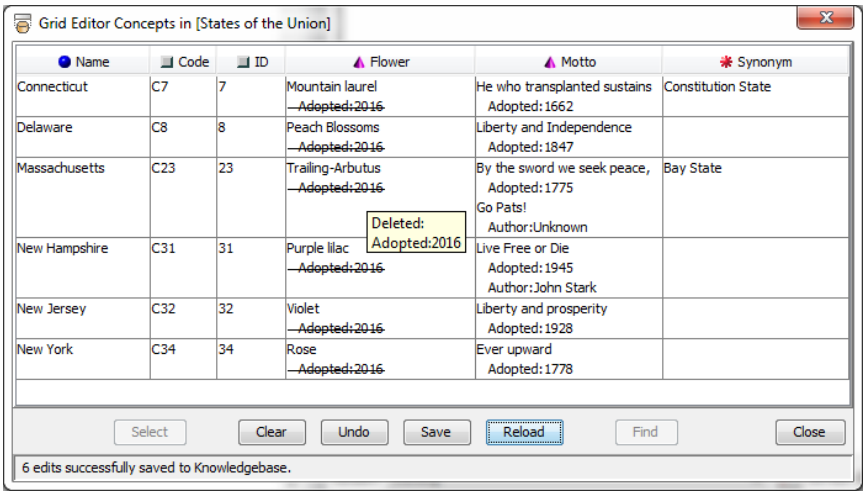


Click on **OK** to continue with the deletion, or **Cancel** to return to the Batch Edit window.

As with property deletions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.



In this example, a new **Adopted** qualifier with a value of **2016** has been deleted from all properties in the column. Instances of the new property are displayed with strikethrough to indicate that a namespace update to those attribute values is pending. In addition, each affected qualifier's tooltip shows the qualifier as deleted.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the qualifier edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.2.4 Delete an Association

To delete an association from a set of concepts, add the desired association type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for associations will appear. To delete associations, use the **Attribute** tab and select the **Delete** radio button at the top of the panel.

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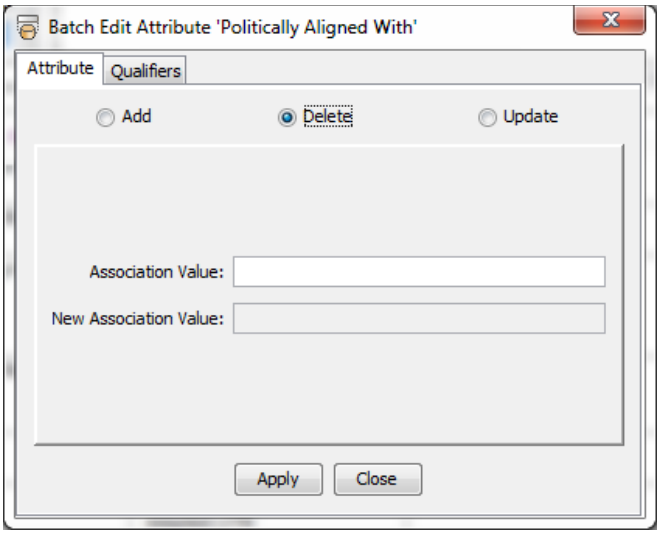
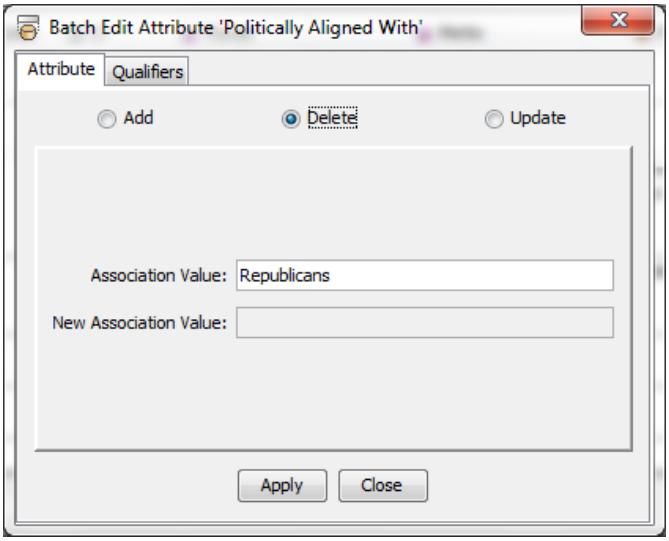


The **Association Value** field will be enabled and the **New Association Value** field will be disabled.

Drag a concept from another DTS Editor panel, e.g. the Tree panel or Concept tab of the Concept Details panel, into the **Association Value** field. If you want to delete all instances of this association type, you can leave the **Association Value** field blank.

In the example below, the concept **Republicans** was dragged from the Details panel and dropped into the **Association Value** field.



If you decide not to perform the attribute deletion, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To delete the association **Republicans** from all concepts in the selected Grid Editor column, click **Apply**.

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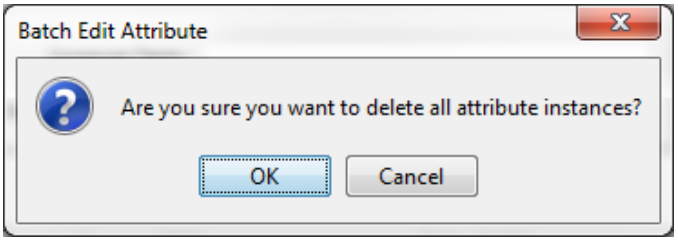
If you are deleting all instances of the association type, an additional confirmation window will be shown.



Click on **OK** to continue with the deletion, or **Cancel** to return to the Batch Edit window.

As with synonym additions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

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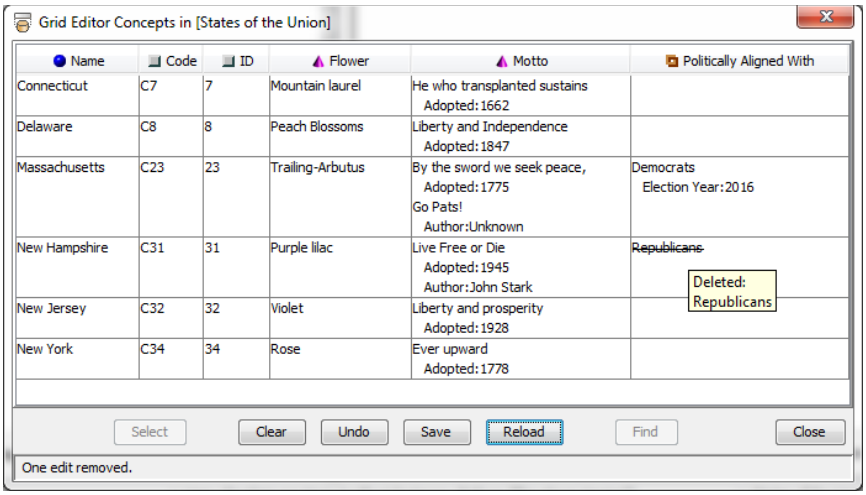

In this example, the **Politically Aligned With** association having a value of **Republicans** has been deleted from all concepts. Instances of the association are displayed with strikethrough to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the association as added.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.2.5 Delete an Association Qualifier

To delete an association qualifier from a set of associations, add the appropriate association type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

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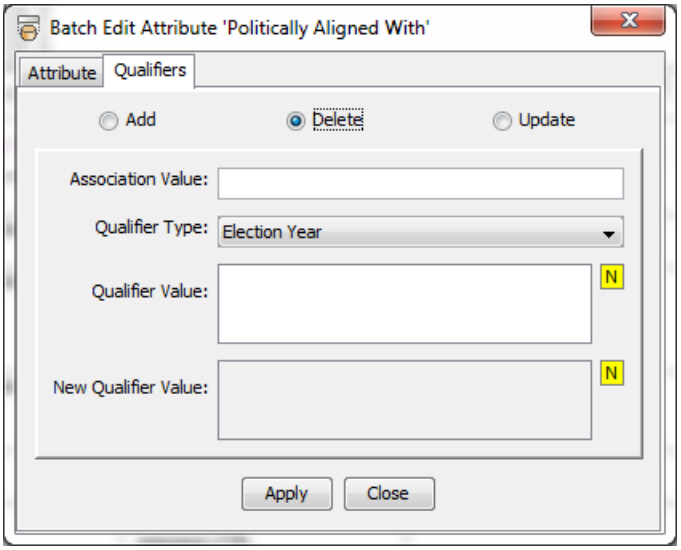
When the Batch Edit Attribute window for the selected association type opens, select the **Qualifiers** tab. To delete qualifiers, select the **Delete** radio button at the top of the panel.



The **Qualifier Value** field will be enabled and the **New Qualifier Value** field will be disabled.

The **Association Value** field at the top of the panel specifies the value of the selected association from which a qualifier should be removed. Only associations having this value will have qualifiers deleted. Drag a concept from another DTS Editor panel, e.g. the Tree panel or Concept tab of the Concept Details panel, into the **Association Value** field, or leave this field blank to delete the qualifier from all associations present on the concepts.

Next select the qualifier type to be deleted from the **Qualifier Type** dropdown box. The validator icons next to the **Qualifier Value** and **New Qualifier Value** field will be updated. Note that only qualifier types present in the active configuration can be deleted.

Finally enter the qualifier value to be deleted in the **Qualifier Value** field. Your value must conform to the rules of any validator. Regular Expression values are validated when the **Apply** button is pressed. For list validators, the value field is a value list rather than a text field. Select one of the permissible values from the list. If you want to delete all instances of this qualifier type, you can leave the **Qualifier Value** field blank.

If you decide not to perform the qualifier deletion, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To delete the qualifier from all specified associations in the selected Grid Editor column, click **Apply**.

If you are deleting all instances of the qualifier type, an additional confirmation window will be shown showing the selected qualifier name.

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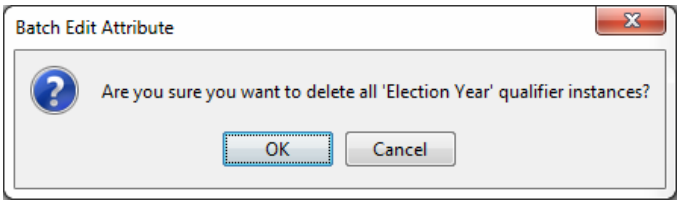
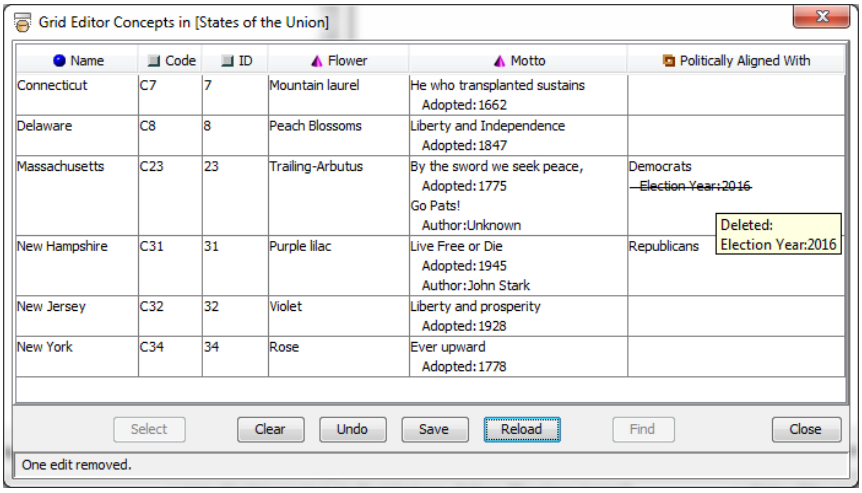


Click on **OK** to continue with the deletion, or **Cancel** to return to the Batch Edit window.

As with association deletions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.



In this example, the **Election Year** qualifier with a value of **2016** has been deleted from the association with a **Democrats** value. Instances of the qualifier are displayed with strikethrough to indicate that a namespace update to those attribute values is pending. In addition, each affected qualifier's tooltip shows the qualifier as deleted.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the qualifier edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.2.6 Delete a Defining Concept

To delete a defining concept from a set of Ontylog or Ontylog Extension concepts, be sure the **Defining Concept** attribute is present in Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for defining concepts will appear. To delete defining concepts, select the **Delete** radio button at the top of the panel.

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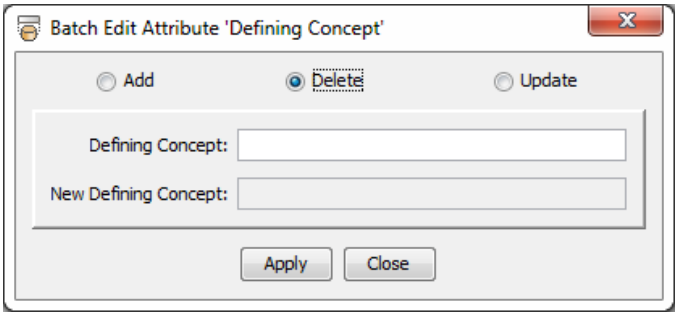
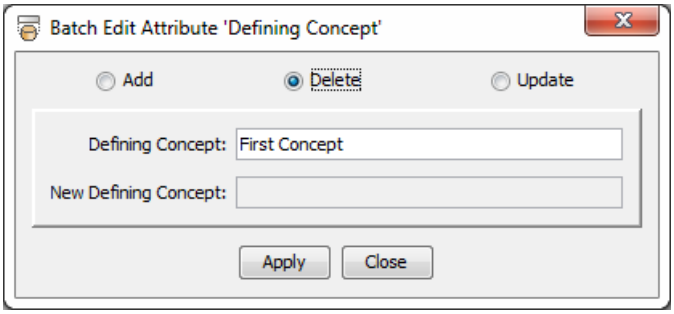


The **Defining Concept** field will be enabled and the **New Defining Concept** field will be disabled.

Drag the defining concept to be removed from another displayed panel (e.g., Tree panel, Concept tab of the Details panel, or Search panel) then drop it into the **Defining Concept** field on the Batch Edit window. If you want to delete all defining concepts, you can leave the **Defining Concept** field blank

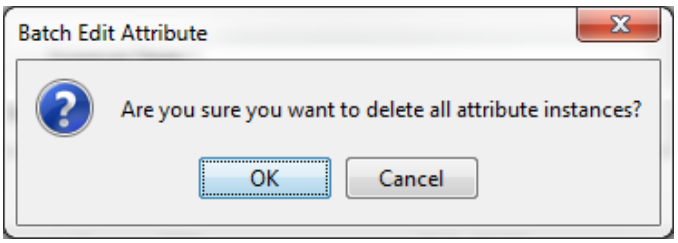
In the example below, the concept **First Concept** was dragged from the Tree panel and dropped into the **Defining Concept** field.



If you decide not to perform the attribute deletion, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To delete the concept **First Concept** as a defining concept from all concepts in the Grid Editor table, click **Apply**.

If you are deleting all defining concepts, an additional confirmation window will be shown.



Click on **OK** to continue with the deletion, or **Cancel** to return to the Batch Edit window.

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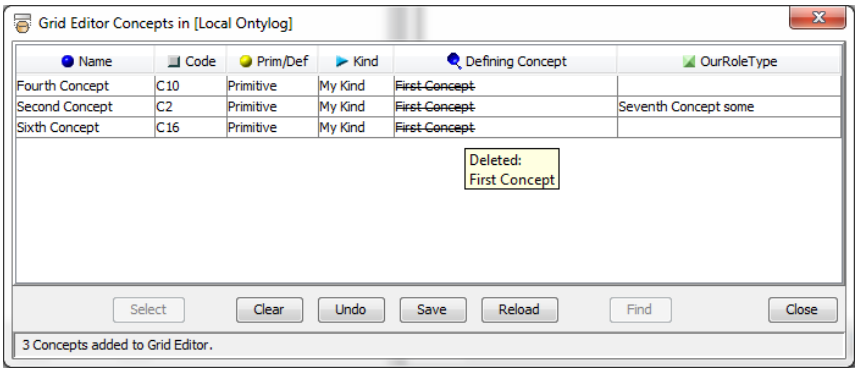
As with other attribute deletions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

Note that the last defining concept on a concept cannot be deleted if that concept has children (inverse defining concepts). Instances of this condition will be listed in the **Apply** confirmation dialog.



In this example, the defining concept **First Concept** has been deleted from all concepts. Instances of the defining concept are displayed with strikethrough to indicate that a namespace update to those attribute values is pending. In addition, each affected defining concept's tooltip shows the concept as deleted.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.2.7 Delete a Defining Role

To delete a defining role from a set of Ontylog or Ontylog Extension concepts, add the desired role type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for roles will appear. To delete roles, select the **Delete** radio button at the top of the panel.

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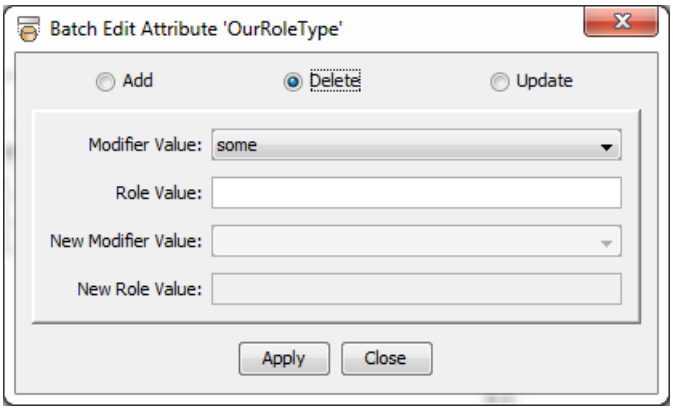
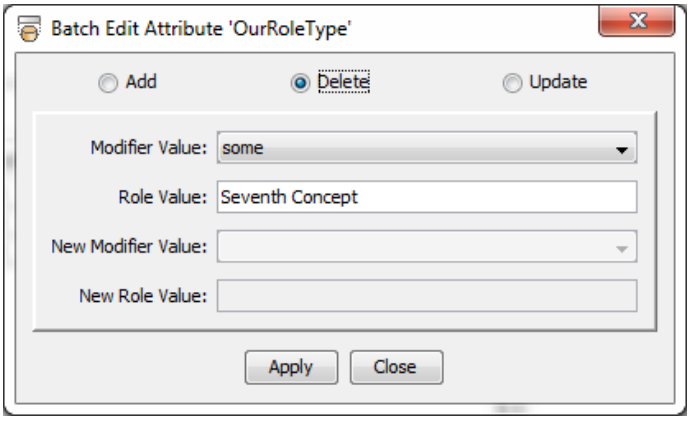


The **Modifier Value** and **Role Value** fields will be enabled and the **New Modifier Value** and **New Role Value** fields will be disabled.

Select the role modifier for the role to be deleted from the dropdown (**some** and **all** are supported) and drag the role value concept from another DTS Editor panel, e.g. the Tree panel or Concept tab of the Concept Details panel, into the **Role Value** field. If you want to delete all instances of this role type, you can leave the **Role Value** field blank.

In the example below, **some** was selected as the role modifier and **Seventh Concept** was dragged from the Details panel and dropped into the **Role Value** field.



If you decide not to perform the attribute deletion, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To delete the defining role **some Seventh Concept** from all concepts in the selected Grid Editor column, click **Apply**.

If you are deleting all instances of the role type, an additional confirmation window will be shown.

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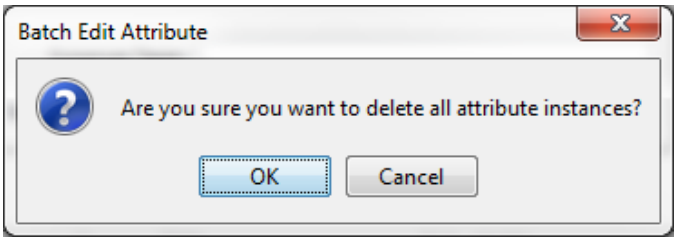
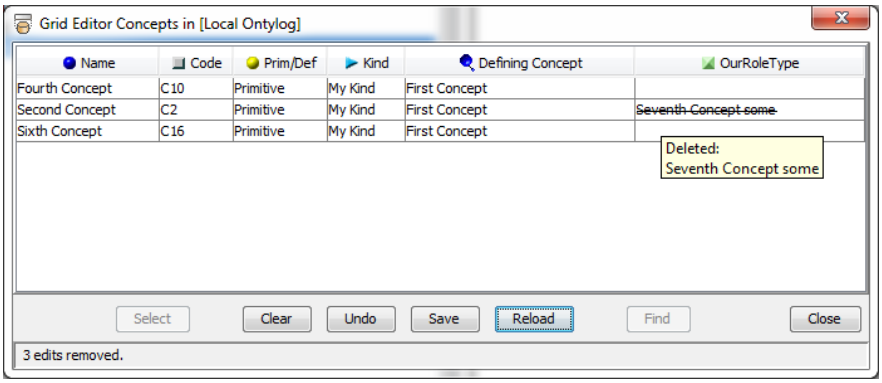


Click on **OK** to continue with the deletion, or **Cancel** to return to the Batch Edit window.

As with defining concept deletions, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.



In this example, the **some Seventh Concept** defining role has been deleted from all concepts in the selected Grid Editor column. Instances of the role are displayed with strikethrough to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the role as deleted.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.3 Update Concept Attribute Values in Batch Mode

D.3.1 Update a Synonym

To update a synonym on a set of concepts, add the desired synonym type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for synonyms will appear. To update synonyms, select the **Update** radio button at the top of the panel.

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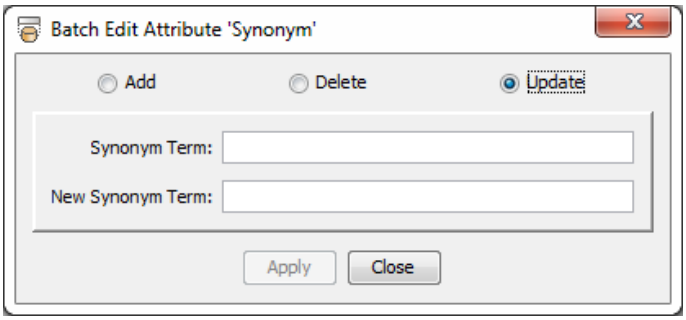
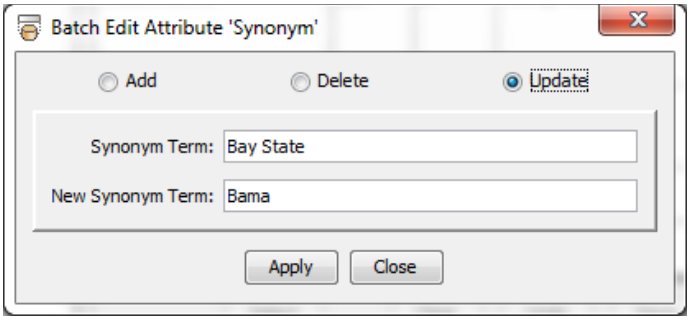


The **Synonym Term** and **New Synonym Term** fields will be enabled.

Drag the term for the synonym you want updated from another DTS Editor panel, e.g. the Term tab of the Details panel, into the **Synonym Term** field, and drag the new synonym term into the **New Synonym Term** field.

In the example below, the term **Bay State** was dragged into the **Synonym Term** field and Bama into the **New Synonym Term** field.



If you decide not to perform the attribute update, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To update the synonym in all concepts in the selected Grid Editor column, click **Apply**. All instances of this synonym will be marked as updated and a confirmation window will display indicating the number of concepts on which the edit was applied.

In the Grid Editor table, all instances of the synonym are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the synonym as updated.

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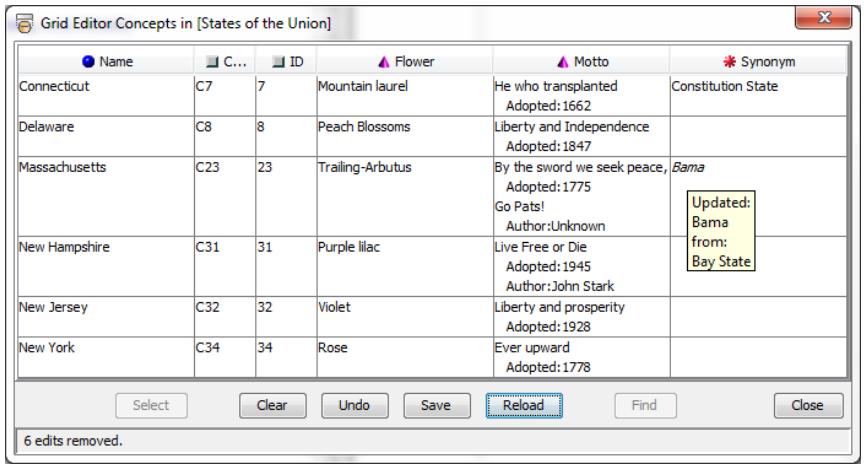


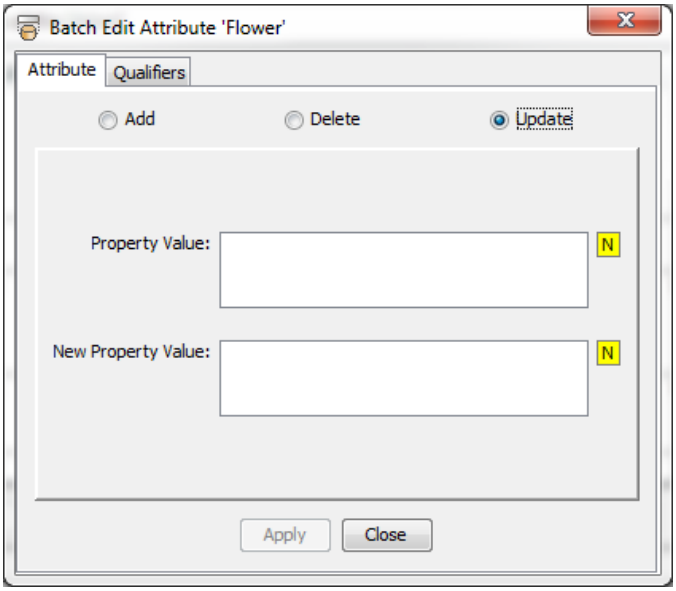
If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.3.2 Update a Property

To update a property from a set of concepts, add the desired property type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for properties will appear. To update properties, use the **Attribute** tab and select the **Update** radio button at the top of the panel.



The **Property Value** and **New Property Value** fields will be enabled.

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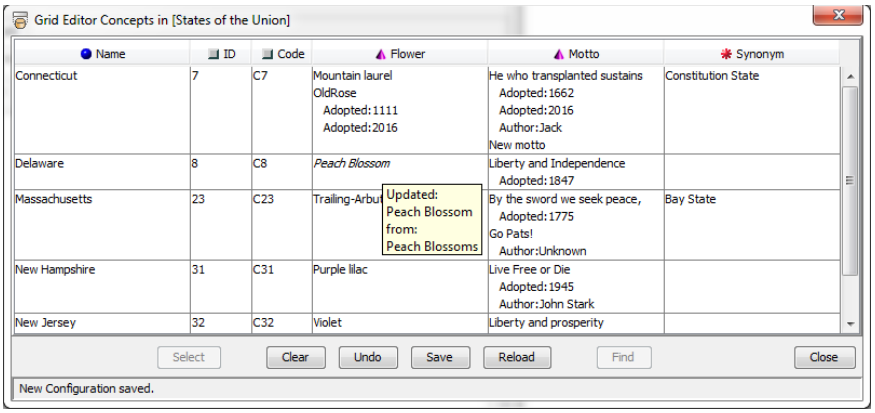
Enter the value for the property you want updated into the **Property Value** field. Your value must conform to the rules of any validator. Regular Expression values are validated when the **Apply** button is pressed. For list validators, the value field is a list rather than a text field. Select one of the permissible values from the list.

Similarly, enter the new property value into the **New Property Value** field.

If you decide not to perform the attribute update, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To update all instances of the property on all concepts in the selected Grid Editor column, click **Apply**. As with synonym updates, the edits are applied and a confirmation window displays indicating the number of concepts to which the edit was applied.



In this example, the **Flower** property having a value of **Peach Blossoms** has been updated to a value of **Peach Blossom**. Instances of the property are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the property as updated.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.3.3 Update a Property Qualifier

To update a property qualifier on a set of properties, add the appropriate property type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

When the Batch Edit Attribute window for the selected property type opens, select the **Qualifiers** tab. To update qualifiers, select the **Update** radio button at the top of the panel.

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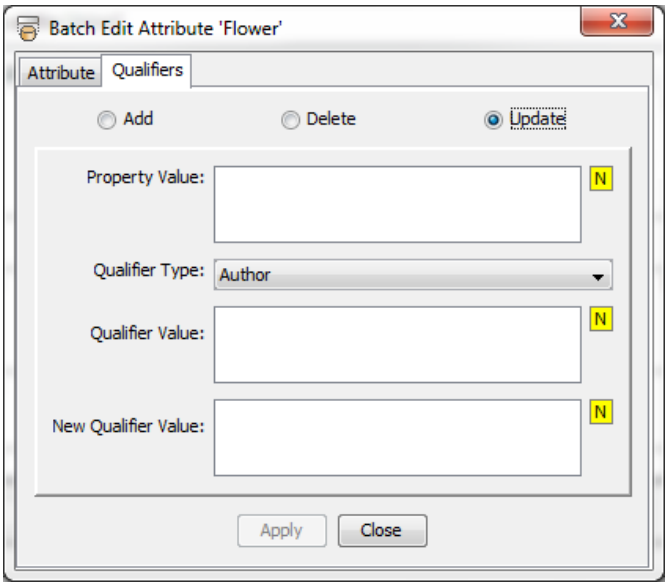

The **Qualifier Value** and **New Qualifier Value** fields will be enabled.

The **Property Value** field at the top of the panel specifies the value of the selected property on which a qualifier should be updated. Only properties having this value will have qualifiers updated. The validator icon to the right of the field defines what value restrictions, if any, have been defined for the property. Enter the desired property value or leave this field blank to update the qualifier on all properties present on the concepts.

Next select the qualifier type to be updated from the **Qualifier Type** dropdown box. The validator icons next to the **Qualifier Value** and **New Qualifier Value** field will be updated. Note that only qualifier types present in the active configuration can be updated.

Enter the qualifier value to be updated in the **Qualifier Value** field. Your value must conform to the rules of any validator. Regular Expression values are validated when the **Apply** button is pressed. For list validators, the value field is a value list rather than a text field. Select one of the permissible values from the list.

Finally, enter the new qualifier value in the **New Qualifier Value** field.

If you decide not to perform the qualifier update, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To update the qualifier on all specified properties in the selected Grid Editor column, click **Apply**. As with property updates, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

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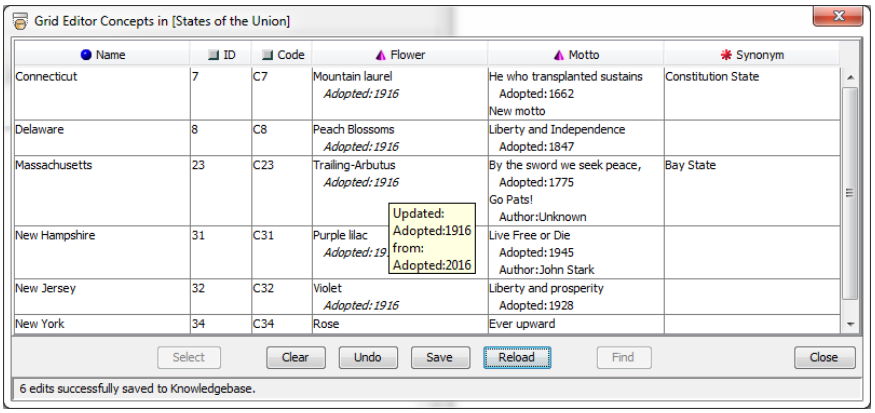


In this example, the **Adopted** qualifier with a value of **2016** has been updated on all properties in the column to a new value of **1916**. Instances of the new property are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected qualifier's tooltip shows the qualifier as updated.

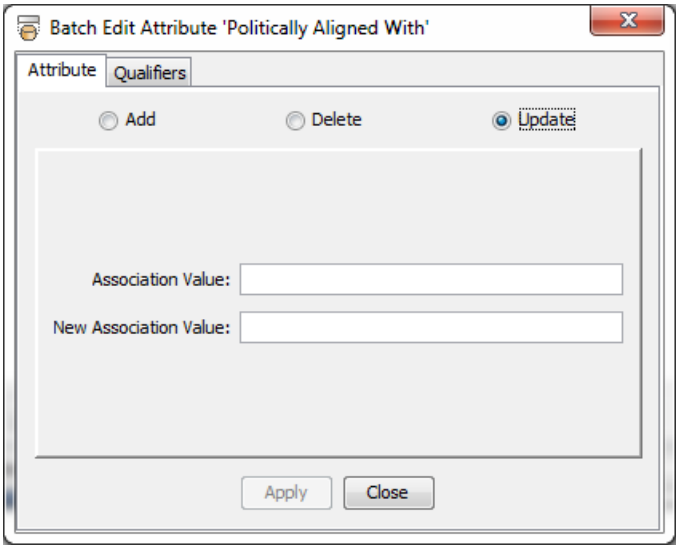
If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the qualifier edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.3.4 Update an Association

To update an association on a set of concepts, add the desired association type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for associations will appear. To update associations, use the **Attribute** tab and select the **Update** radio button at the top of the panel.



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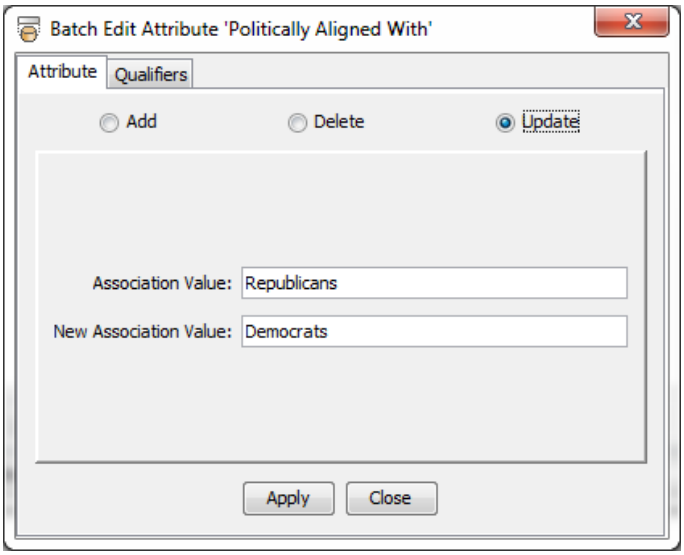
The **Association Value** and **New Association Value** fields will be enabled.

Drag the concept for the association you want updated from another DTS Editor panel, e.g. the Concept tab of the Details panel, into the **Association Value** field, and drag the new association concept into the **New Association Value** field.

In the example below, the concept **Republicans** was dragged from the Details panel and dropped into the **Association Value** field and **Democrats** was dragged into the **New Association Value** field.



If you decide not to perform the attribute update, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To update the association **Republicans** on all concepts in the selected Grid Editor column, click **Apply**. As with synonym updates, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.

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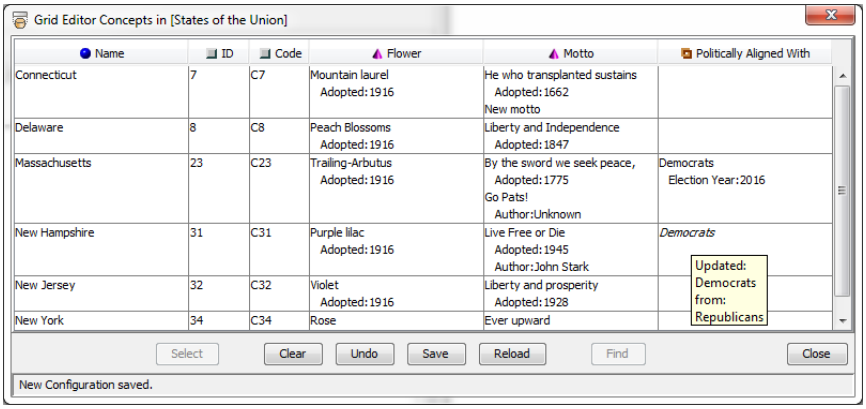

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In this example, the **Politically Aligned With** association having a value of **Republicans** has been updated with the concept **Democrats**. Instances of the association are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the association as updated.

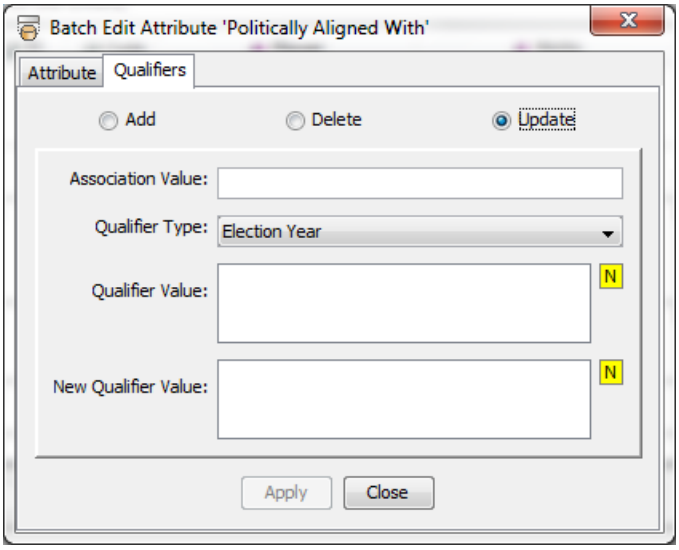
If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.3.5 Update an Association Qualifier

To update an association qualifier on a set of associations, add the appropriate association type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

When the Batch Edit Attribute window for the selected association type opens, select the **Qualifiers** tab. To update qualifiers, select the **Update** radio button at the top of the panel.



The **Qualifier Value** and **New Qualifier Value** fields will be enabled.

The **Association Value** field at the top of the panel specifies the value of the selected association from which a qualifier should be updated. Only associations having this value will have qualifiers updated. Drag a concept from another DTS Editor panel, e.g. the Tree panel or Concept tab of the Concept Details panel, into the **Association Value** field, or leave this field blank to update the qualifier on all associations present on the concepts.

Next select the qualifier type to be updated from the **Qualifier Type** dropdown box. The validator icons next to the **Qualifier Value** and **New Qualifier Value** field will be updated. Note that only qualifier types present in the active configuration can be updated.

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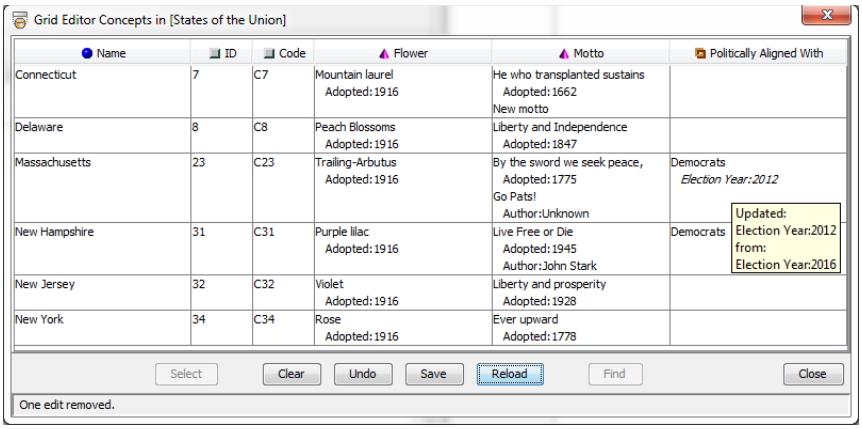
Enter the qualifier value to be updated in the **Qualifier Value** field. Your value must conform to the rules of any validator. Regular Expression values are validated when the **Apply** button is pressed. For list validators, the value field is a value list rather than a text field. Select one of the permissible values from the list.

Finally enter the new qualifier value in the **New Qualifier Value** field.

If you decide not to perform the qualifier update, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To update the qualifier on all specified associations in the selected Grid Editor column, click **Apply**. As with association updates, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.



In this example, the **Election Year** qualifier with a value of **2016** has been updated to a new value of **2012**. Instances of the qualifier are displayed italics to indicate that a namespace update to those attribute values is pending. In addition, each affected qualifier's tooltip shows the qualifier as updated.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the qualifier edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.3.6 Update a Defining Concept

To update a defining concept on a set of Ontylog or Ontylog Extension concepts, be sure the **Defining Concept** attribute is present in Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for defining concepts will appear. To update defining concepts, select the **Update** radio button at the top of the panel.

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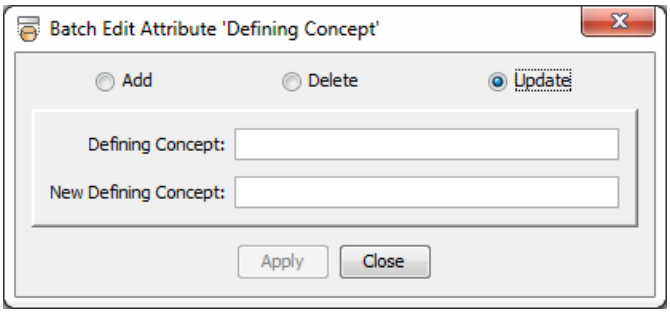
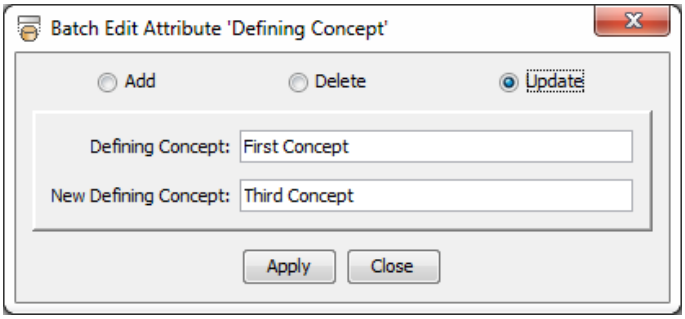


The **Defining Concept** and **New Defining Concept** field will be enabled.

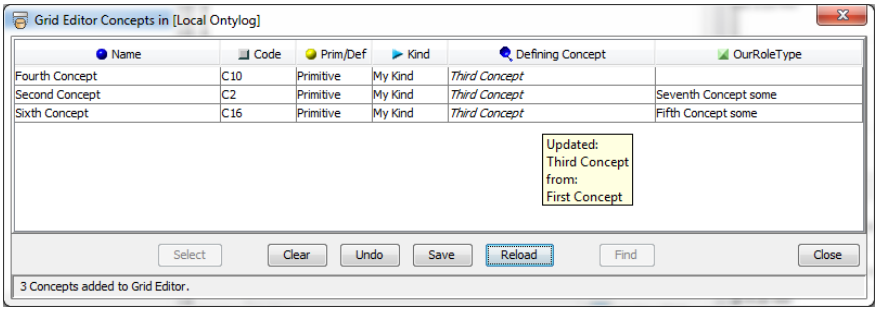
Drag the defining concept to be updated from another displayed panel (e.g., Tree panel, Concept tab of the Details panel, or Search panel) and drop it into the **Defining Concept** field, then drag the new defining concept into the **New Defining Concept** field.

In the example below, the concept **First Concept** was dragged into the **Defining Concept** field and **Third Concept** was dragged into the **New Defining Concept** field. Note that the two defining concepts must have the same kind or an error message will be shown.



If you decide not to perform the attribute update, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To update all **First Concept** defining concepts to **Third Concept** on all concepts in the Grid Editor table, click **Apply**. As with other attribute updates, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.



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In this example, the defining concept **First Concept** has been updated to **Third Concept** on all concepts. Instances of the defining concept are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected defining concept's tooltip shows the concept as updated.

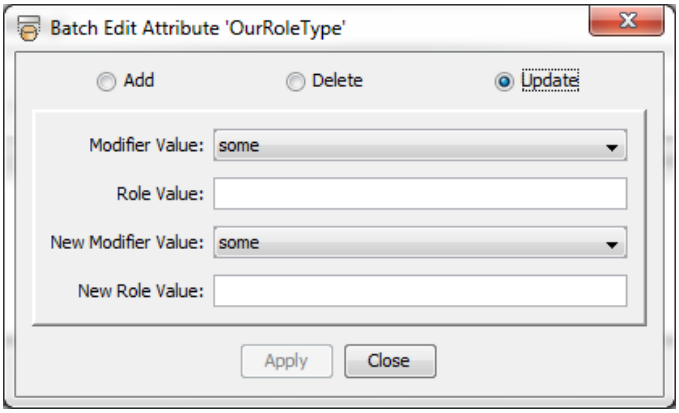
If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

D.3.7 Update a Defining Role

To update a defining role from a set of Ontylog or Ontylog Extension concepts, add the desired role type attribute to the Grid Editor column configuration. Then right-click in the attribute's column header and select the **Batch Edit Column** option from the menu.

The Batch Edit Attribute window for defining roles will appear. To update roles, select the **Update** radio button at the top of the panel.



The **Modifier Value**, **Role Value, New Modifier Value** and **New Role Value** fields will be enabled.

Select the role modifier for the role to be updated from the **Modifier Value** dropdown (**some** and **all** are supported) and drag the role value concept to be updated from another DTS Editor panel, e.g. the Tree panel or Concept tab of the Concept Details panel, into the **Role Value** field. Then select the new role modifier from the **New Modifier Value** dropdown and drag the new role value concept into the **New Role Value** field.

In the example below, **Fifth Concept** was dragged into the **Role Value** field and **Seventh Concept** was dragged to the **New Role Value** field. **Some** was selected as both role modifiers. Note that the two role concepts must have the same kind consistent with the role type's range kind or an error message will be shown.

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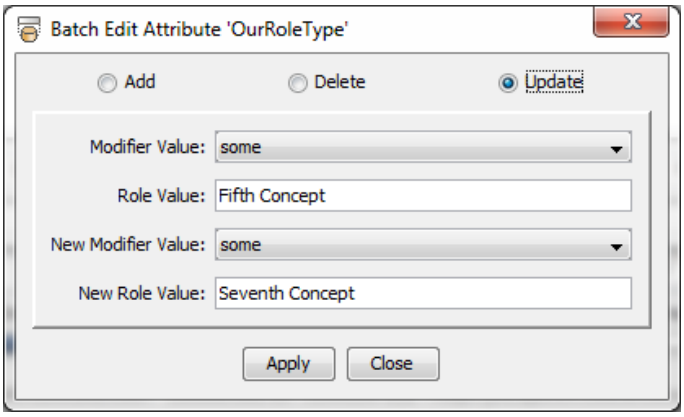
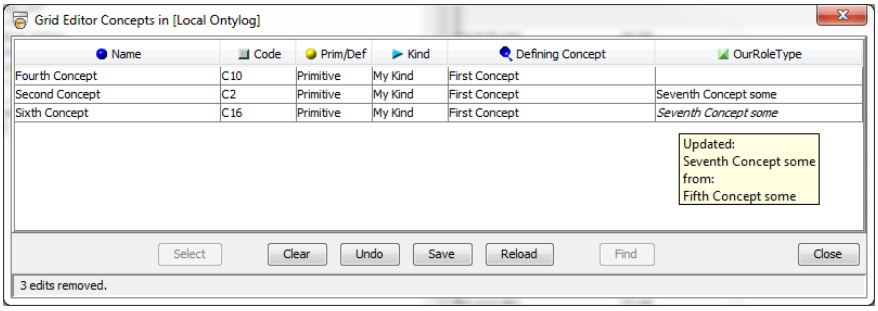


If you decide not to perform the attribute update, click **Close** in the Batch Edit window. The window closes, and no changes are made.

To update the defining role **some Fifth Concept** to **some Seventh Concept** on all concepts in the selected Grid Editor column, click **Apply**. As with defining concept updates, the edits are applied and a confirmation window displays indicating the number of concepts on which the edit was applied.



In this example, the **some Fifth Concept** role has been updated to **some Seventh Concept** on all concepts in the selected Grid Editor column. Instances of the role are displayed in italics to indicate that a namespace update to those attribute values is pending. In addition, each affected attribute's tooltip shows the role as updated.

If you do not wish these edits to be applied, click **Undo.** The Grid Editor display will revert back to the original values.

Click **Save** to update the namespace with the attribute edits. After the updates have been applied, a confirmation window will appear to indicate a successful namespace update.

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E. Edit Individual Attribute Values

Using the Grid Editor you can add a new synonym, property, association, defining concept or defining role to the existing attributes on an individual concept (or term). You also can replace or delete an existing synonym, property, association, defining concept, or defining role's value, and delete an individual qualifier. Note that you cannot update or delete any defining role that is in a role group; you must drag the role's concept to the Detail panel in order to update the role group.

E.1 Copy an Attribute Value from Another Panel

You can drag objects from other DTS Editor panels (e.g., Tree panel or Detail panel) into the Grid Editor to add or replace Grid Editor attributes. As with other Grid Editor edits, these additions or replacements are not committed to the active namespace until they are explicitly saved.

The following objects can be dragged to edit the designated attributes:

- Drag a term, synonym or term association to add/replace a synonym.
- Drag a property of any type to add/replace a property.
- Drag a concept, concept association, or role to add/replace a concept association.
- Drag a term, synonym or term association to add/replace a term association.
- Drag a concept, concept association or role to add/replace a defining concept.
- Drag a concept, concept association or role to add/replace a defining role.

Note that only the value of the dragged attribute is used in add or replace: the concept value in a concept association or role, the term value in a synonym or term association, the string value of a property, the concept value of a defining concept or the concept value of a role. The type of the associated synonym, property, association or role is ignored.

To add an attribute to a cell in the Grid Editor, select the concept (term), synonym, property, association or role you want to copy from another displayed panel (e.g., the Tree panel) and drag it to the desired Grid Editor cell (in the illustration, the **Third Concept** concept has been dragged to the **Defining Concept** cell for the concept **Second Concept**).

When the drag is completed, the Add/Replace popup menu displays in the cell. (If there is no existing attribute in the cell, only the **Add** item is present.)

Click **Add** to create a new attribute from the dragged object. Click anywhere else in the table to cancel the popup and ignore the drag.

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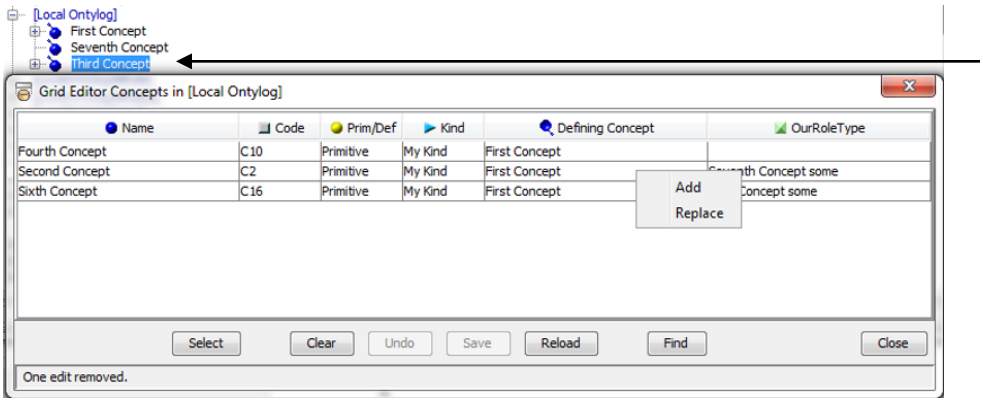
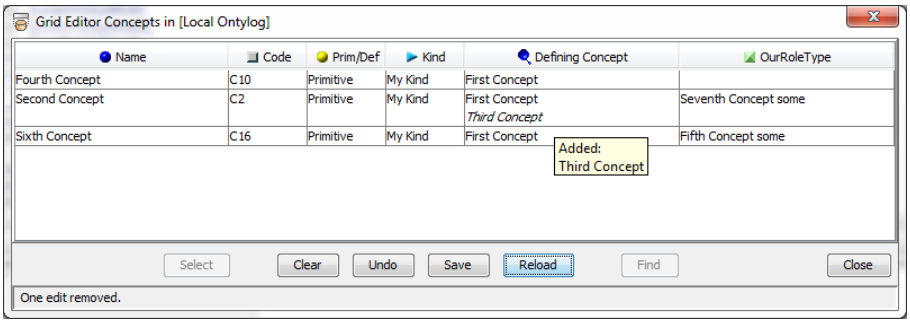
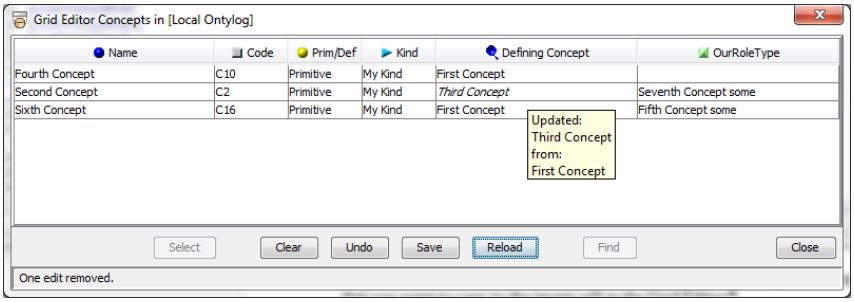


In the example below, the added attribute displays in italics to indicate that the edit is pending to the namespace and the attribute's tooltip shows the attribute as added.



To replace an attribute value in the Grid Editor, drag the object onto the attribute to be replaced and select the **Replace** item in the displayed popup menu. In the example below, the **Replace** item was selected rather than the **Add**.



Once edits have been made, you can click **Undo** to discard each individual edit in reverse order (i.e., the last individual edit is undone first).

Click **Save** to update the namespace with the edit.

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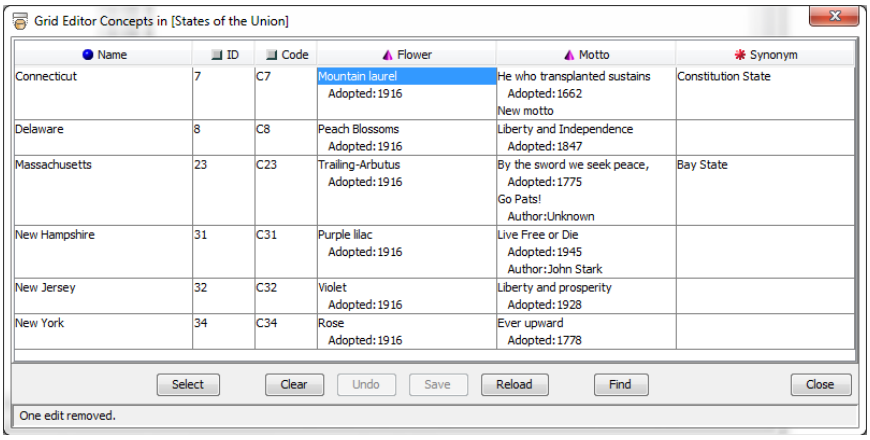
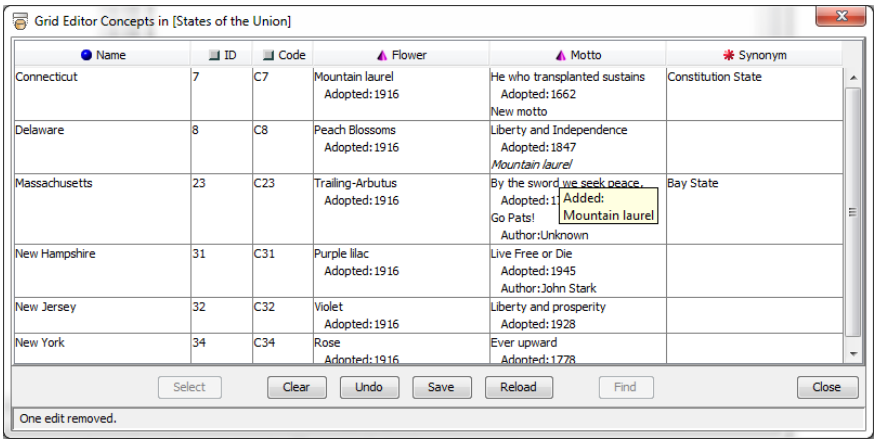
E.2 Copy an Attribute Value Across Cells

Attribute values can also be copied from other Grid Editor cells. Synonym, property, association, defining concept and defining role attributes can be dragged to other cells in the same manner as described in the previous section.

To copy an existing attribute value, click once on the attribute to highlight it. In the example below, the property **Mountain Laurel** was selected.



Then drag the attribute to another cell. In this example, the **Mountain Laurel** property was dragged to the **Motto** cell on **Delaware**, and the Add item was selected from the popup menu.



Once edits have been made, you can click **Undo** to discard each individual edit in reverse order (i.e., the last individual edit is undone first).

Click **Save** to update the namespace with the edit.

E.3 Delete an Attribute

You can delete an existing attribute or qualifier in the Grid Editor table. Synonyms, properties, property qualifiers, associations, association qualifiers, defining concepts and defining roles can be deleted.

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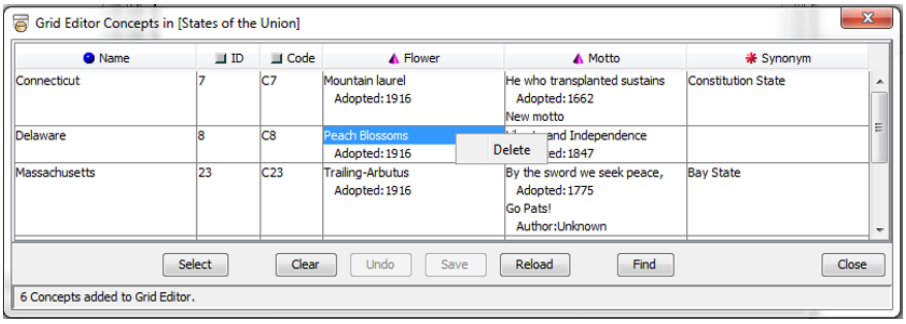
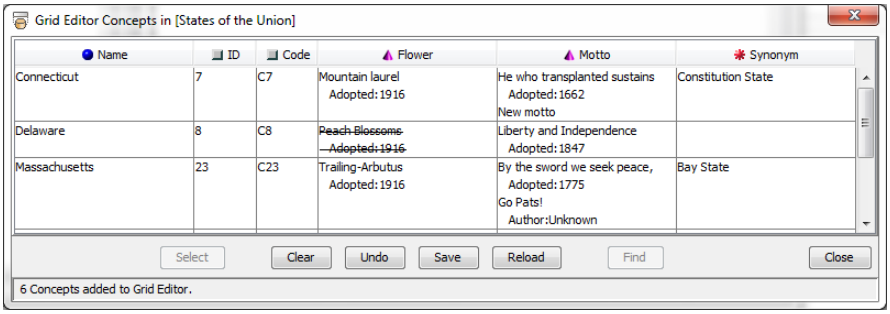
To delete an attribute, move the cursor over the attribute and right-click. The Delete popup menu will appear. Click **Delete** to delete the attribute. Click anywhere else in the table to cancel the menu and ignore the action.

In the example below, a right-click was made on the **Peach Blossom** property.



If **Delete** is selected, the deleted attribute displays with strikethrough to indicate that the edit is pending update to the namespace and the attribute's tooltip shows the attribute as deleted. Note that when a qualified attribute is deleted, all its qualifiers are marked deleted as well.



Once edits have been made, you can click **Undo** to discard each individual edit in reverse order (i.e., the last individual edit is undone first).

Click **Save** to update the namespace with the edit.

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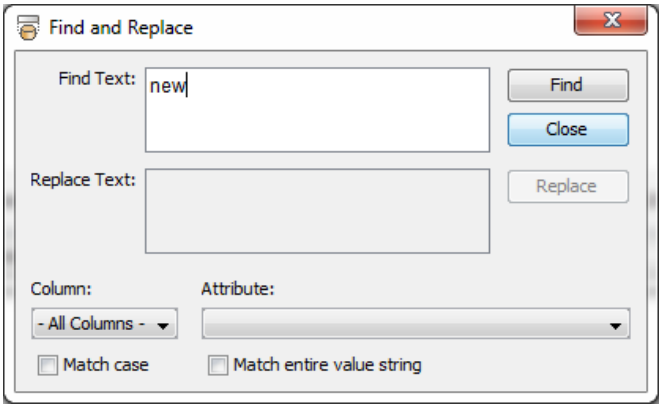
F. Find and Replace Attribute Value Text

You can search concept names, attribute values and qualifier values shown in the Grid Editor table for each occurrence of a text string that you specify. You can search on the whole table, or filter the search so that only a specific column, or specific attribute, is searched. You can also direct that the search to be case-sensitive or match the entire attribute/qualifier value.

For property attribute values and property and association qualifier values, you can replace matches with new values.

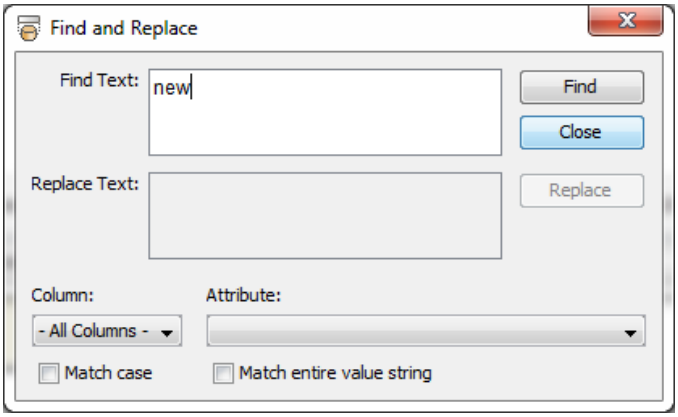
F.1 Find Text Matches

Click the **Find** button on the Grid Editor button bar to open the Find and Replace window:



In the **Find Text** area, enter the text string you want to search for in concept names, attribute values and/or qualifier values (the string may represent only a portion of a word). If an attribute value in any Grid Editor cell is highlighted when the Find and Replace window is opened, the **Find Text** area is initialized with that value.

In the example below, the search is for the text string 'new'.



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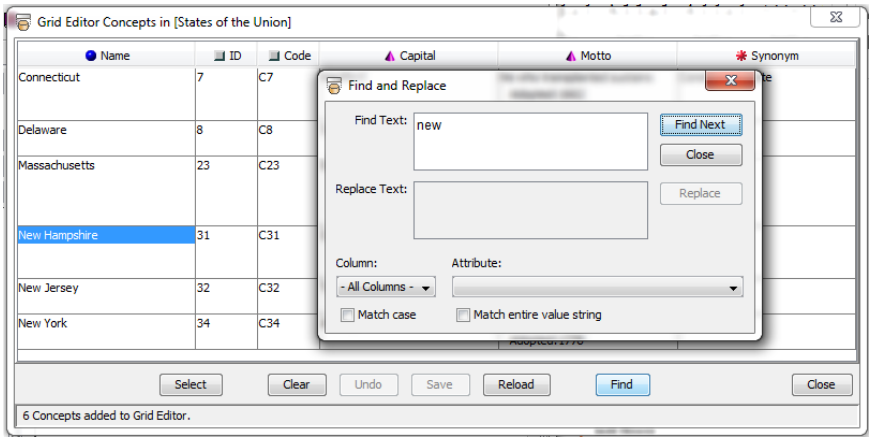
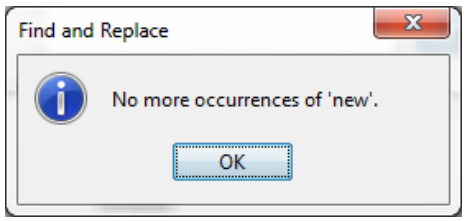
The default search methodology is a case-insensitive, "contains" search on all concept names, attribute values, and qualifier values. This type of search can be modified using any combination of four search options determined by the values of the four fields at the bottom of the Find and Replace window:

- The **Column** dropdown field specifies which column(s) will be searched. The default is **All Columns**, but a specific column can be selected.
- The **Attribute** field specifies which attribute's values in the selected column should be searched. This field is disabled for **All Columns**. If a specific column is selected in the **Column** dropdown, the available selections are that column's main attribute plus any displayed qualifiers.
- To perform a case-sensitive search, check the **Match case** box.
- To perform a search where the match is on the entire attribute value, rather than a "contains" on the value, check the **Match entire value string** box.

Click **Find** to begin the search. Using the default settings, the search would identify the first match in the Grid Editor table. Note the first concept name containing **new** is highlighted in the table.



Once a search has been started, the label of the **Find** button changes to **Find Next**. Click **Find Next** repeatedly to highlight each occurrence of the search text in the table. After all occurrences are highlighted, the following window displays.



F.2 Replace Property and Qualifier Value Text

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You can search Grid Editor property values, property qualifier values and association qualifier values, for each occurrence of a specified text string, then replace selected occurrences of the matched string with another text string.

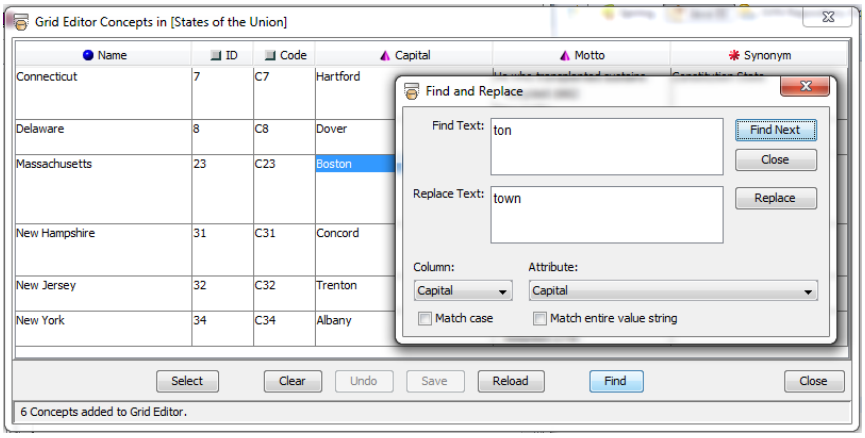
With the Find and Replace window open, select the column of the property, property qualifier or association qualifier to be updated from the **Column** dropdown. (It is not possible to perform a replace operation on **All Columns**.) Then select the specific attribute to be updated from the **Attribute** dropdown. Note that if an association column is selected, you will not be able to perform a replace unless an association qualifier is selected.

Enter the text string to be replaced in the **Find Text** field. If an attribute value in any Grid Table cell is highlighted when the Find and Replace window is opened, the **Find Text** area is initialized with that value.

Enter the replacement text string in the **Replace Text** field. If this field is not enabled, an incorrect **Column/Attribute** selection has been made.

Click **Find** to begin the search.

In the example below, a search is being performed for the text string **ton** in the **Capital** attribute of the **Capital** column. The replacement string is **town**. The attribute having the first match is highlighted.



Click **Replace**. The Confirm Replace window requests confirmation of replacement of the highlighted occurrence of the search text string.

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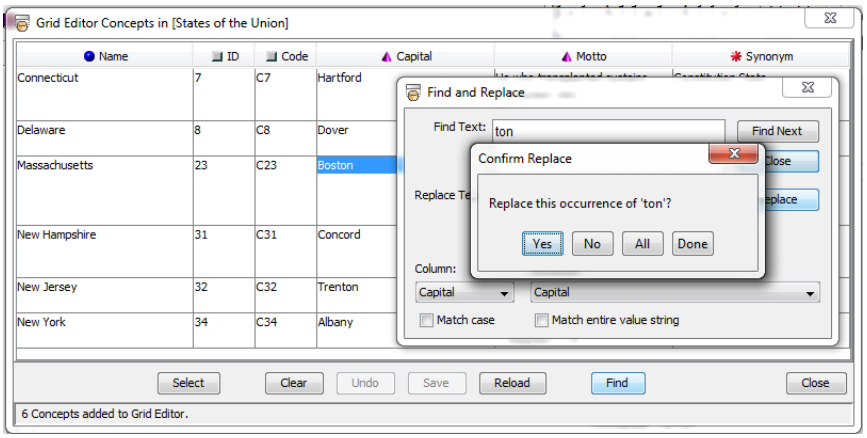
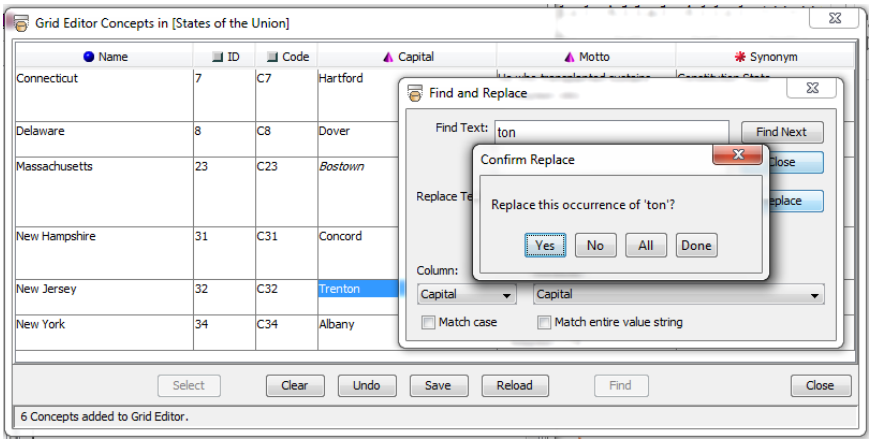


Click **Yes** to replace this match with the new text string or **No** to bypass replacement of this text string occurrence. For a selection of either **Yes** or **No**, the next match is highlight and the Confirm Replace window is displayed.

Click **All** to replace all occurrences of the text string with the replacement text, or click **Done** on the Confirm Replace window when you have completed text replacements.

In the example below, **Yes** was selected and the first match has been replaced.



When replacements have been completed, all updated values in the Grid Editor are shown in italics for review (pending update of edits to the namespace).

Click **Undo** to discard each individual text replacement in reverse order (i.e., the last text replacement is undone first). Each replaced text occurrence reverts back to the previous text value.

Click **Save** to update the namespace with the text replacement edits. A confirmation window displays to indicate successful namespace update.

Back to Top

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