

## Morpho - Bug #546

### data editing enhancements

07/08/2002 10:25 AM - Matt Jones

<b>Status:</b>	Resolved	<b>Start date:</b>	07/08/2002
<b>Priority:</b>	Immediate	<b>Due date:</b>	
<b>Assignee:</b>	Dan Higgins	<b>% Done:</b>	0%
<b>Category:</b>	morpho - general	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	1.2	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	546		
<b>Description</b>			
Need several new features for editing data:			
1) When an existing data file is updated, be able to save it using an ID in the same family but a different revision # (right now morpho creates a completely new ID rather than simply rev'ing the old one)			
2)Need to be able to add new records to an existing file			
3) Need to be able to provide a metadata description of a data file and add all of the records for the data file from scratch.			
<b>Related issues:</b>			
Blocked by Morpho - Bug #545: annotation capability for editing data		<b>In Progress</b>	<b>07/08/2002</b>

### History

#### #1 - 07/15/2002 08:19 AM - Dan Higgins

Item 1) in bug description is incorrect. Currently, when a data file is updated, the id IS just revised to the next version number.

#### #2 - 07/17/2002 12:38 PM - Matt Jones

Some additional notes from an email from Dan Higgins:

`Some preliminary thoughts on the data editor capabilities summary.`

### Data Editor:

Data editing refers to editing of text-based tabular data

Existing data is displayed in a panel which has a Java JTable grid display. Entity (table) level metadata and attribute (variable) metadata exists for the displayed data.

- Currently:
  - o Editing is limited to the in-place editing of any cell in the table display; i.e. select the cell and enter new data).
  - o When the user clicks the update button, the newly entered data is saved to a new version of the data file, the package metadata is also updated, but entity and attribute metadata do not need to change.
- Planned
  - o Add a row anywhere in the table - This requires changes in the datapackage(new version) and entity metadata,(number of records changes) but attribute metadata is unchanged. Metadata changes do not require any additional input from user.
  - o Add a column anywhere in the table - requires changes in datapackage, entity, and attribute metadata. Must ask the user for attribute info for the added row
    - + automatic column fills (sequential, repeat) - uncertain
    - + fills from metadata NOT automatic (i.e. require user input)
  - o Note: if we allow adding rows and columns to empty grid, we

have the ability to build a completely new dataset (i.e data creation inside Morpho).

- Uncertain?
  - o row and column deletion
  - o text searching
  - o column re-ordering
  - o spell checking
  - o column sorting
- Not Planned
  - o Joins, subselects with discontinuous regions., calculated cell values, etc. ???

### #3 - 07/17/2002 12:41 PM - Matt Jones

Hi Dan,

Thanks for the overview. Looks good. My 2 cents are:

1) your "planned" features are good. Note that the editing data feature should add the annotation capability that we discussed in SB and is summarized in bug 545

2) I would move the following features from the uncertain category to the planned category: row and column deletion, column reordering, column sorting

3) I would move "text searching", "spell checking", "automatic column fills (sequential, repeat)", and "fills from metadata" from the uncertain category to the not planned category. Although these are good features, I think we should postpone their implementation.

4) I would prioritize the resulting list of planned features in the following order in terms of importance of implementation:

- a) add a column
- b) delete a column
- c) reorder a column
- d) column sorting
- e) change a cell value
- f) add a row
- g) delete a row
- h) annotate data changes such as row additions, deletions, or cell value changes

Each of these features allows the user to make changes to the data entity, and so there should be a "Save" capability for the user to indicate when a batch of changes should be saved to disk as a new revision (ie, 8 spelling changes should not result in 8 revisions). Note that a, b, and c can already be done by editing metadata, but the changes are not properly synchronized with the data at this point in time.

Thanks for writing this stuff up. I guess it was more like 4 cents worth, but whose counting, eh?

### #4 - 09/30/2002 01:52 PM - Dan Higgins

Basically, all the planned changes except for annotation of data changes have been implemented (and the low level changes for annotation have been made. - Need to create a user interface and decide where to save).

One limitation is that changing of column order can be done, but not easily (Requires one to copy all the data in a column, delete the column, create a new column, and then paste the data into the column.) Probably should allow the user to simply drag column locations and rewrite the attribute data when this is done.

This change is being postponed.

### #5 - 09/30/2002 01:54 PM - Dan Higgins

Basically, all the planned changes except for annotation of data changes have been implemented (and the low level changes for annotation have been made. - Need to create a user interface and decide where to save).

One limitation is that changing of column order can be done, but not easily (Requires one to copy all the data in a column, delete the column, create a new column, and then paste the data into the column.) Probably should allow the user to simply drag column locations and rewrite the attribute data when this is done.

This change is being postponed to version 1.3.

**#6 - 11/06/2002 12:42 PM - Matt Jones**

DONE. column editing feature add as its own bug.

**#7 - 03/27/2013 02:14 PM - Redmine Admin**

Original Bugzilla ID was 546