

## Kepler - Bug #3984

### RequireVersion parameter cannot be deleted from a saved workflow

04/14/2009 11:16 AM - Oliver Soong

<b>Status:</b>	Resolved	<b>Start date:</b>	04/14/2009
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Christopher Brooks	<b>% Done:</b>	0%
<b>Category:</b>	actors	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.0.0	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	3984		
<b>Description</b>			
In an unsaved workflow (no associated file), RequireVersion can be added and deleted as expected. If I save an entirely empty workflow to a file, I can add RequireVersion but cannot delete it. The URL is an example workflow.			

#### History

##### #1 - 04/18/2009 06:45 PM - Christopher Brooks

This bug is replicatable in a non-Kepler Ptolemy installation.  
File -> New -> Graph Editor  
Drag in a RequireVersion attribute  
Save the model  
The RequireVersion attribute cannot be deleted in the model.

BTW - when creating bugs, it is best to not include example models as URLs because the URLs tend to disappear over time. If the model is added as an attachment to the bug, then the model will be more closely associated with the bug.

##### #2 - 04/25/2009 10:07 AM - Christopher Brooks

Fixed!  
The problem was that it was not possible to delete a RequireVersion Attribute from a saved model. One could argue that this is good, since the RequireVersion attribute is a precondition for the operation of the model. However, software that tries to be too smart is annoying, and the reason that RequireVersion could not be deleted is because of a bug, not because of intentional design.

The reason is because VersionAttribute.equals() matches on the version expression. Thus, if we had a VersionAttribute that had the value 8.0.beta and a RequireVersion that had the value 8.0.beta, then they were seen as being equal.

What happens is that when we read the model in, we have  
VersionAttribute - which is in every model  
RequireVersion - which is added by the user

When we delete RequireVersion, the equals() finds first VersionAttribute at the top and probably deletes it.  
The reason this only fails in a saved .xml file is that upon writing the model is when the VersionAttribute is added.

The fix/workaround is to add equals(Object) and hashCode() to RequireVersion.

##### #3 - 03/27/2013 02:25 PM - Redmine Admin

Original Bugzilla ID was 3984