

Kepler - Bug #4529

NPE while saving KAR crashes Kepler

11/03/2009 10:19 PM - Oliver Soong

Status:	Resolved	Start date:	11/03/2009
Priority:	Normal	Due date:	
Assignee:	Aaron Aaron	% Done:	0%
Category:	general	Estimated time:	0.00 hour
Target version:	wrp-modules-2.0.0	Spent time:	0.00 hour
Bugzilla-Id:	4529		

Description

While exploring another bug, I encountered this NPE, and it entirely killed Kepler. This happened after saving a workflow into a local repository. I don't know specifically how to replicate it, though.

done writing KAR file to C:\Documents and Settings\visitor\Desktop\kepler\workflows\test1.kar

```
java.lang.NullPointerException
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```
at org.kepler.kar.handlers.ActorMetadataKAREntryHandler.open(ActorMetadataKAREntryHandler.java:217)
```

```
[...]
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```
ERROR (org.kepler.kar.handlers.ActorMetadataKAREntryHandler:open:235) error opening the workflow: null
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at java.awt.EventQueueDispatchThread.pumpEventsForFilter(EventDispatchThread.java:184)
```

History

#1 - 11/03/2009 10:30 PM - Oliver Soong

Incidentally, I can restart Kepler and open the saved KAR.

#2 - 11/03/2009 10:42 PM - Oliver Soong

I can reproduce this on 21316. I'm not sure which of these steps is absolutely necessary, but this is what I do:

1. clean-cache and run Kepler.
2. Create a trivial workflow. Opening an example workflow does not trigger the bug. This is what I use:
 - a. SDF Director. Set iterations to 1
 - b. Expression actor, set expression to 1
 - c. Another Expression actor (Expression2), add an input port called in, set expression to in
 - d. Hook Expression.output to Expression2.in
3. Save the workflow (I put it into kepler\workflows\test.xml)
4. Save Archive (KAR) (I put it into kepler\workflows\test.kar)

At that point, Kepler should abort with an NPE on the console. I have only tested this under Windows.

#3 - 11/04/2009 08:59 AM - ben leinfelder

aaron - can you take a look at this since the stack trace looks to be around ActorMetadataKAREntryHandler?

#4 - 11/18/2009 08:59 AM - ben leinfelder

The Configuration that was being retrieved ended up being null so the openModel() call failed with the NPE. I used a more direct method for retrieving a Configuration instance and that seems to work fine.

NB: I'm a little worried about how there are GUI classes being invoked inside the KAREntryHandler. Especially since we are trying to use the handlers in both gui and non-gui contexts.

I think we are mostly dodging the bullet with KeplerConfigurationApplication in that it extracts the MOML and opens/runs it using its own gui-less way while other pieces of the KAR are cached by their respective handlers so that they are available during wrapup().

#5 - 03/27/2013 02:27 PM - Redmine Admin

Original Bugzilla ID was 4529