

## AF3 Phoenix - Change Request #3712

### Extend image export functionality from component architectures only to task and platform architectures

04/15/2019 04:45 PM - Tiziano Munaro

<b>Status:</b>	Feedback	<b>Start date:</b>	04/15/2019
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Tiziano Munaro	<b>% Done:</b>	70%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	AF3 2.18 - Feature Freeze		
<b>Description</b>			
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Extend the functionality defined in eu.fbk.af3.tools.diagram.ui.commands.AbstractComponentToImage.export(String saveFilePath, Component component) to support task and platform architectures as well - ideally through a generic implementation.			
<b>Expected behavior</b>			
The "Export component as image ..." feature shall behave exactly the same as for the component architectures, allowing the export of the architectures with their respective layouts.			
<b>Related issues:</b>			
Related to Feature #2679: [safety-reporting] Build an exporter for safety cases		<b>Closed</b>	<b>02/05/2019</b>

#### History

##### #1 - 04/24/2019 12:00 AM - Tiziano Munaro

- Status changed from New to Feedback
- Assignee changed from Tiziano Munaro to Alexander Diewald
- % Done changed from 0 to 80

##### #2 - 05/02/2019 10:29 AM - Simon Barner

- File 3712.af3\_23 added
- File 3712.png added
- Assignee changed from Alexander Diewald to Tiziano Munaro
- % Done changed from 80 to 70

I reviewed the code.

Furthermore, I identified the following issues / suggested changes:

1. Existing image files are overwritten without asking!
2. There is lots of excessive white space around the exported images. Not ideal for reusing the image in a document.
3. Connector labels sometimes overlap with model element labels. Maybe this is related to the "Automatic port label layout" feature? Since we now have an autolayout at the diagram level, I suggest to consider to remove that feature. In my opinion, the layout of exported images should just mirror what is displayed in the tool.
4. In case a name label does not fit the bounding box of the model element, in the diagram viewer the name is abbreviated ("Component" -> "Com..." in the attached model). However, in the exported image, the label is currently not abbreviated. This should be implemented, ideally reusing the code for the diagram viewer for the image export.
5. af3.safetycases.ui contains a clone of the image export
  - o However, in that exporter, the element labels in the exported images are customized and differ from those in the diagram view.
  - o In order to get rid of that clone, e.g. the IModelElementHandler interface should be extended with a method (e.g., getPrintLabel()) that enables such customizations. The default implementation of that method (in ModelElementHandlerBase) should simply call getName().
  - o This activity should be synchronized with [#2679](#)
6. The generated images are black and white. It would be good to set the foreground and background color of the model elements according to the edit parts getForegroundColor() and getBackgroundColor() return values. This activity should be synchronized with [#2679](#).

##### #3 - 05/02/2019 10:33 AM - Simon Barner

- Related to Feature #2679: [safety-reporting] Build an exporter for safety cases added

**#4 - 06/27/2019 01:59 PM - Simon Barner**

Just as a hint: the 3712 branches have been merged with master. Please pull before you continue...

**#5 - 09/30/2019 02:29 PM - Tiziano Munaro**

- Target version changed from AF3 2.16 RC1 (Feature Freeze) to AF3 2.17 (Feature Freeze)

**#6 - 05/11/2020 11:42 AM - Johannes Eder**

- Target version changed from AF3 2.17 (Feature Freeze) to AF3 2.18 - Feature Freeze

**Files**

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3712.af3_23	18.2 KB	05/02/2019	Simon Barner
3712.png	21.1 KB	05/02/2019	Simon Barner