

## User Interface - Bug #3592

### shared frame interface needs to use the entire frame structure, not from each frame reference

05/28/2018 07:17 AM - Constantin Asofiei

<b>Status:</b> New	<b>Start date:</b>
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b>	
<b>billable:</b> No	<b>case_num:</b>
<b>vendor_id:</b> GCD	<b>version:</b>
<b>Description</b>	
<b>Related issues:</b>	
Related to Database - Bug #4450: implement shared query and shared browse <b>Closed</b>	

## History

### #2 - 05/28/2018 07:22 AM - Constantin Asofiei

A frame definition may be split between multiple UI statements, like this:

1. master reference:

```
def new shared frame f1.  
  
def var x as int.  
def var y as int.  
  
form x y with frame f1.
```

2. child reference:

```
def shared frame f1.  
  
def var x as int.  
def var y as int.  
  
form x with frame f1.  
form y with frame f1.
```

We need to capture all frame references which affect its structure (similar to how we build the frame in frame\_generator.xml), and use FrameAstKey with this definition.

To bypass this issue, I've changed frame\_generator\_pre.xml to avoid processForm if fAlloc already has fr\_interface annotation, but this is just a patch and it works only if first frame reference in each program have the same structure.

### #3 - 05/28/2018 07:28 AM - Greg Shah

Questions:

1. Are these in separate programs?
2. What is the problem that this causes for the frame? Does it have 4 widgets (prog1\_x, prog1\_y, prog2\_x, prog2\_y) in the 4GL but just 2 in FWD?

### #4 - 05/28/2018 07:32 AM - Constantin Asofiei

Greg Shah wrote:

Questions:

1. Are these in separate programs?

Yes.

2. What is the problem that this causes for the frame? Does it have 4 widgets (prog1\_x, prog1\_y, prog2\_x, prog2\_y) in the 4GL but just 2 in FWD?

The problem is that frame\_generator.xml processes each individual i.e FORM statement as having an unique frame structure, from which a shared frame interface must be built - this is incorrect, as the frame structure must be determined from all these i.e. FORM statements.

I've used this patch:

```
### Eclipse Workspace Patch 1.0
#P p2j
Index: rules/annotations/frame_generator_pre.xml
=====
--- rules/annotations/frame_generator_pre.xml      (revision 1592)
+++ rules/annotations/frame_generator_pre.xml      (working copy)
@@ -3,11 +3,17 @@
 ** Module      : frame_generator_pre.xml
 ** Abstract    : Walks procedures and looks for common interfaces for each FRAME.
 **
- ** Copyright (c) 2016-2017, Golden Code Development Corporation.
+ ** Copyright (c) 2016-2018, Golden Code Development Corporation.
 **
 **  _#_ _I_ _Date_  _____ Description_____
 ** 001 OM  20161107 Walks procedures and looks for common interfaces for each SHARED FRAME.
 ** 002 OM  20170118 Avoid interface frame name collision on Windows filesystem.
+ ** 003 CA  20180528 This code should capture the frame definition from all frame-structure related
+ ** statements (FORM, UPDATE, DISPLAY, etc), same as frame_generator.xml does;
+ ** this is because a frame definition may be split in multiple statements.
+ ** To bypass incorrect frame interface resolution, the code now uses only the
+ ** first frameAlloc call - once "fr_interface" is set, then that is used, but
+ ** this is not entirely correct.
-->
<!--
 ** This program is free software: you can redistribute it and/or modify
@@ -119,7 +125,11 @@
     <parameter name="fAlloc"   type="com.goldencode.ast.Aast" />
     <return name="res"       init="false" />

-     <rule>>true
+     <!-- this is a hack to avoid frame interface computation more than once.
+     TODO: 4GL allows the shared frame definition/structure to be split among as many
+     UPDATE, FORM, DISPLAY, etc statements as it wants - we need to compute the frame
+     structure from all of these, and not only from the first one -->
+     <rule>not fAlloc.isAnnotation("fr_interface")
         <variable name="formKey"           type="com.goldencode.p2j.uast.FrameAstKey" />
         <variable name="nextFrameSuffix"  type="java.lang.Integer" />
         <variable name="iName"            type="java.lang.String" />
```

To avoid this issue, but this just assumes the first frame reference contains the entire shared frame's structure (is not split as in my example). This works for the issue I was having, but the root cause is not fixed.

**#5 - 05/28/2018 07:33 AM - Constantin Asofiei**

Greg Shah wrote:

2. What is the problem that this causes for the frame? Does it have 4 widgets (prog1\_x, prog1\_y, prog2\_x, prog2\_y) in the 4GL but just 2 in FWD?

And to be more specific: the incorrect shared interface name may be resolved, leading to compile errors.

**#6 - 12/12/2019 01:45 PM - Roger Borrello**

- *Related to Bug #4450: implement shared query and shared browse added*