

User Interface - Bug #11715

NullPointerException on frame handle assignation

08/06/2026 08:09 AM - Teodor Gorghe

|                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Status:Test</div> <div>Priority:Normal</div> <div>Assignee:Teodor Gorghe</div> <div>Category:</div> <div>Target version:</div> <div>billable:No</div> <div>vendor_id:GCD</div> <div>case_num:</div> <div>version_reported:</div> <div>version_resolved:</div> | <div>Start date:</div> <div>Due date:</div> <div>% Done:100%</div> <div>Estimated time:0.00 hour</div> <div>reviewer:Constantin Asofiei</div> <div>production:No</div> <div>env_name:</div> <div>topics:</div> |
| Description                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                |

History

#1 - 08/06/2026 08:14 AM - Teodor Gorghe

It's the regression spotted on #11673-14.

This is the testcase: [test1\\_driver.ptest1\\_driver.p](#)

```
def var d-var as char no-undo.  
  
form d-var with frame f-driver title "Driver" size 80 by 5 at row 1 col 1.  
  
d-var = "driver".  
display d-var with frame f-driver.  
  
hide all no-pause.  
hide message no-pause.  
  
run test1.p.
```

[test1.ptest1.p](#)

```
def var my_var as char no-undo.  
  
form 1 with frame my_frame size 80 by 20 at row 2 col 1.  
form my_var with frame my_frame2 title "My Title" 10 down.  
  
frame my_frame2:frame = frame my_frame:handle.  
frame my_frame2:col = 40.  
frame my_frame2:row = 5.  
  
procedure refresh.  
  display 1 with frame my_frame.  
  
  clear frame my_frame2 all.  
  my_var = "row".  
  display my_var with frame my_frame2.  
  down 1 with frame my_frame2.  
end.  
  
run refresh.
```

[LogsLogs](#)

```

java.lang.reflect.InvocationTargetException
    at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:77)
    at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43
)
    at java.base/java.lang.reflect.Method.invoke(Method.java:569)
    at com.goldencode.p2j.util.MethodInvoker.invoke(MethodInvoker.java:126)
    at com.goldencode.p2j.net.Dispatcher.processInbound(Dispatcher.java:812)
    at com.goldencode.p2j.net.Conversation.block(Conversation.java:461)
    at com.goldencode.p2j.net.Conversation.waitMessage(Conversation.java:387)
    at com.goldencode.p2j.net.Queue.transactImpl(Queue.java:1294)
    at com.goldencode.p2j.net.Queue.transact(Queue.java:705)
    at com.goldencode.p2j.net.BaseSession.transact(BaseSession.java:276)
    at com.goldencode.p2j.net.HighLevelObject.transact(HighLevelObject.java:222)
    at com.goldencode.p2j.net.RemoteObject$RemoteAccess.invokeCore(RemoteObject.java:1468)
    at com.goldencode.p2j.net.InvocationStub.invoke(InvocationStub.java:144)
    at jdk.proxy2/jdk.proxy2.$Proxy3.standardEntry(Unknown Source)
    at com.goldencode.p2j.main.ClientCore.start(ClientCore.java:553)
    at com.goldencode.p2j.main.ClientDriver.start(ClientDriver.java:293)
    at com.goldencode.p2j.main.CommonDriver.process(CommonDriver.java:522)
    at com.goldencode.p2j.main.ClientDriver.process(ClientDriver.java:175)
    at com.goldencode.p2j.main.ClientDriver.main(ClientDriver.java:381)
Caused by: java.lang.NullPointerException: Cannot store to double array because "this.startRow" is null
    at com.goldencode.p2j.ui.client.Frame.readjustDownBody(Frame.java:7955)
    at com.goldencode.p2j.ui.client.Frame.postprocess(Frame.java:4503)
    at com.goldencode.p2j.ui.client.WidgetRegistry.pushDefinition(WidgetRegistry.java:792)
    at com.goldencode.p2j.ui.chui.ThinClient.lambda$pushOneDef$46(ThinClient.java:11826)
    at com.goldencode.p2j.ui.chui.ThinClient.eventBracket(ThinClient.java:20415)
    at com.goldencode.p2j.ui.chui.ThinClient.eventDrawingBracket(ThinClient.java:20357)
    at com.goldencode.p2j.ui.chui.ThinClient.pushOneDef(ThinClient.java:11817)
    at com.goldencode.p2j.ui.chui.ThinClient.pushScreenDefinition(ThinClient.java:11755)
    ... 20 more

```

### #3 - 08/06/2026 08:23 AM - Teodor Gorghe

- Status changed from New to WIP
- Assignee set to Teodor Gorghe

- % Done changed from 0 to 100
- reviewer Constantin Asofiei added

Created task branch **11715a** and committed revision **16693**:

- Added laidOut which tells that the doLayout has at least executed once.

**#4 - 08/06/2026 08:25 AM - Teodor Gorghe**

- Status changed from WIP to Review

Constantin, can you take a look into **11715a** changes?

This path is more reachable from **11394b** because frame defs are now lazy and arrive in a different order.

**#5 - 08/06/2026 08:28 AM - Greg Shah**

Please update [Open Regressions in FWD v4](#).

**#6 - 08/06/2026 08:35 AM - Teodor Gorghe**

Done

**#7 - 08/06/2026 09:06 AM - Constantin Asofiei**

Teodor, what's the stacktrace on the server side when the NPE happens?

**#8 - 08/06/2026 12:36 PM - Teodor Gorghe**

Stacktrace from logs doesn't tell that much where it happens on the server-side, but I have traced it through debugging and this is:

- From the converted line: frame my\_frame2:frame = frame my\_frame:handle -> myFrame2Frame.asWidget().setFrameHandle(myFrameFrame.asWidgetHandle())
- Goes through FrameWidget.setFrame -> addDynamicWidget -> LT.attachRuntimeWidget and reaches the new code added in #11394: if (!frame.clientRegistered) pushScreenDefinition.
- abends then in LT.clientCall(), in the processDeferredPush(true); because the parent frame is incomplete because of the previous pushScreenDefinition for the child frame.
- make **11715a** changes to allow frame registration in that order.

**#9 - 08/07/2026 01:36 AM - Constantin Asofiei**

Teodor, is this something that affects Hotel ChUI?

**#10 - 08/07/2026 01:36 AM - Teodor Gorghe**

Yes.

**#11 - 08/07/2026 01:45 AM - Constantin Asofiei**

I've run your test and I don't get the NPE with latest trunk.

**#12 - 08/07/2026 01:46 AM - Teodor Gorghe**

I ran it from ChUI, with enhanced browse feature turned on.

**#13 - 08/07/2026 01:47 AM - Teodor Gorghe**

And you need to run test1\_driver.p.

#### #14 - 08/07/2026 02:08 AM - Constantin Asofiei

OK, I see the NPE. The root cause is because the child frame is pushed after it is attached to the parent frame. So, I think the right fix is to push the child frame def before the parent's:

In LT.attachRuntimeWidget, do this before the parent frame:

```
if (widget instanceof FrameWidget && !((FrameWidget) widget).frame.isClientRegistered())
{
    ((FrameWidget) widget).frame.pushScreenDefinition();
}

if (!frame.isClientRegistered())
{
    frame.pushScreenDefinition(true);
}
```

Please check and if it makes sense, I think we can merge it.

#### #15 - 08/07/2026 02:13 AM - Teodor Gorghe

Yes, so you want to keep the order of frame push the same as prior **11394b**.

I have already attempted that with something like this:

```
if (!frame.isClientRegistered())
{
    processDeferredPush(true);
    if (!frame.isClientRegistered())
    {
        frame.pushScreenDefinition(true);
    }
}
```

but this didn't guaranteed the fact the parent frame is in lt.definitions or lt.level2definitions.

I think the proposed change makes sense, but let me take a look on what can happen.

**#16 - 08/07/2026 02:40 AM - Teodor Gorghe**

Done in [11715/r16694](#).

I don't see any issue with this suggestion, widget.frame can't be null here and I think we shouldn't do an ancestor walk here.

**#17 - 08/10/2026 04:59 AM - Constantin Asofiei**

- *Status changed from Review to Merge Pending*

Teodor, please merge 11715a

**#18 - 08/10/2026 05:02 AM - Teodor Gorghe**

- *Status changed from Merge Pending to Test*

Branch **11715a** was merged into trunk as rev. **16696** and archived.