

ViewRowImpl Migration Issues From JDeveloper 11.1.1.7.0 to 12.2.1.2.0 (Doc ID 2252590.1)

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APPLIES TO:

Oracle JDeveloper - Version 12.2.1.2.0 and later
Information in this document applies to any platform.

SYMPTOMS

On : 12.2.1.2.0 version, ADF Administration (Deployment, Config, Patching, Upgrade, HA, etc.)

After migrating an ADF 11.1.1.7.0 application to ADF 12.2.1.2.0, adding a new transient attribute to an existing View Object causes compilation errors.

This only happens for View Objects originally created with JDeveloper 11.1.1.7.0 then migrated to 12.2.1.2.0. If in the migrated application a new View Object is created the issue is not seen.

Migrating the application to ADF 12.1.3.0.0 the issue does not occur.

ERROR

The reported compilation errors are similar to the ones here below:

```
Error(21,30): get(model.CountriesViewRowImpl) in cannot override get(model.CountriesViewRowImpl) in model.CountriesViewRowImpl.AttributesEnum; attempting to
assign weaker access privileges; was public CountriesViewRowImpl.java C:\Application1\Model\src\model Model.jpr
Error(25,28): put(model.CountriesViewRowImpl,java.lang.Object) in cannot override put(model.CountriesViewRowImpl,java.lang.Object) in
model.CountriesViewRowImpl.AttributesEnum; attempting to assign weaker access privileges; was public CountriesViewRowImpl.java C:\Application1\Model\src\model
Model.jpr
Error(31,30): get(model.CountriesViewRowImpl) in cannot override get(model.CountriesViewRowImpl) in model.CountriesViewRowImpl.AttributesEnum; attempting to
```

```
assign weaker access privileges; was public CountriesViewRowImpl.java C:\Application1\Model\src\model Model.jpr
Error(35,28): put(model.CountriesViewRowImpl,java.lang.Object) in cannot override put(model.CountriesViewRowImpl,java.lang.Object) in
model.CountriesViewRowImpl.AttributesEnum; attempting to assign weaker access privileges; was public CountriesViewRowImpl.java C:\Application1\Model\src\model
Model.jpr
Error(41,30): get(model.CountriesViewRowImpl) in cannot override get(model.CountriesViewRowImpl) in model.CountriesViewRowImpl.AttributesEnum; attempting to
assign weaker access privileges; was public CountriesViewRowImpl.java C:\Application1\Model\src\model Model.jpr
Error(45,28): put(model.CountriesViewRowImpl,java.lang.Object) in cannot override put(model.CountriesViewRowImpl,java.lang.Object) in
model.CountriesViewRowImpl.AttributesEnum; attempting to assign weaker access privileges; was public CountriesViewRowImpl.java C:\Application1\Model\src\model
Model.jpr
Error(51,30): get(model.CountriesViewRowImpl) in cannot override get(model.CountriesViewRowImpl) in model.CountriesViewRowImpl.AttributesEnum; attempting to
assign weaker access privileges; was public CountriesViewRowImpl.java C:\Application1\Model\src\model Model.jpr
Error(55,28): put(model.CountriesViewRowImpl,java.lang.Object) in cannot override put(model.CountriesViewRowImpl,java.lang.Object) in
model.CountriesViewRowImpl.AttributesEnum; attempting to assign weaker access privileges; was public CountriesViewRowImpl.java C:\Application1\Model\src\model
Model.jpr
```

CHANGES

CAUSE

The issue is caused by Bug 25839374 - "vorowimpl migration issues" which is currently under Oracle's engineering review.

Technically the issue is caused by the fact that the migrated "<VO>ViewRowImpl.java" file keeps public access specifier when declaring the getter and setter abstract interfaces.

In the specific, the following two lines of "<VO>ViewRowImpl.java"

```
public abstract Object get(<VO>ViewRowImpl object);
```

```
public abstract void put(<VO>ViewRowImpl object, Object value);
```

should actually be like the following two

```
protected abstract Object get(<VO>ViewRowImpl object);
```

```
protected abstract void put(<VO>ViewRowImpl object, Object value);
```

where <VO> has to be replaced with the actual name of the affected View Object.

SOLUTION

Since the aforementioned bug is still under review, there is no final solution in the product. However there are at least two workarounds that we have been seen solving the issue.

Workaround 1: use this if you have no customization in "<VO>ViewRowImpl.java"

Let JDeveloper 12.2.1.2.0 recreate the affected "<VO>ViewRowImpl.java" files with the following steps for each single View Object <VO>:

1. open the View Object in the IDE, go to "Java" tab and click the topmost pencil;
2. uncheck "Generate View Object Class" and uncheck "Generate View Row Class" and click "OK" button;
3. still in the "Java" tab click the topmost pencil;
4. check "Generate View Object Class" and "Generate View Row Class" and click "OK" button.

Workaround 2: use this if you have a customized "<VO>ViewRowImpl.java" file

Manually change the following two lines of "<VO>ViewRowImpl.java"

```
public abstract Object get(<VO>ViewRowImpl object);
```

```
public abstract void put(<VO>ViewRowImpl object, Object value);
```

to

```
protected abstract Object get(<VO>ViewRowImpl object);
```

```
protected abstract void put(<VO>ViewRowImpl object, Object value);
```

then the application builds successfully and you can add as many new transient attributes as you want to the View Object <VO>, as when the View Object was created with JDeveloper 12.2.1.2.0.

REFERENCES

[BUG:25839374](#) - VOROWIMPL MIGRATION ISSUES

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