We are updating an Ignition 7.9 application to Ignition 8.1. The application relies extensively on the SDK Block and Connector framework. There are a few situations where I haven't been able to figure out the proper classes to use in 8.1.

I do a lot of creating and saving Project Resources. I’ve discovered the ProjectResourceBuilder and DTInterface.saveProjectAs. We’ll see if these work.

In the sections below, are some things I have not figured out. I'll state the objective, and show a snippet of code that used to work in 7.9. All I ask is for a similar snippet of 8.1 code to accomplish the same thing.

1 - Find the data type of a tag given the tag path. Designer context. Note that the method getTag() on the TagManager no longer exists.

ClientTagManager tmgr = context.getTagManager();

**try** {

TagPath tp = TagPathParser.*parse*(path);

Tag tag = tmgr.getTag(tp);

type = tag.getDataType();

...

}

**catch**(IOException ioe) {

...

}

2 - Find other tag properties, like if the tag is an expression, the expression itself, the SQL if it is a query tag. Designer context. Again TagManager.getTag() no longer exists.

ClientTagManager tmgr = context.getTagManager();

DataType typ = **null**;

**try** {

TagPath tp = TagPathParser.*parse*(tagPath);

Tag tag = tmgr.getTag(tp);

Integer tagProp = (Integer)tag.getAttribute(

TagProp.***ExpressionType***).getValue();

typ = tag.getDataType();

}

**catch** (IOException e) {

. . .

}

3 – Obtain a tag TreeModel. The 8.1.0 javdoc (I haven’t found anything newer) says that in the designer, context.getTagBrowser is supposed to return a TagBrowserFrame which it does. However TagBrowserFrame is supposed to be a TagBrowserPanel, which it is not. The panel, if I could get it, has a method to return the TagTreeModel, my objective.

view.setDirty(**false**);

**try** {

**if**( *context*.requestLockQuietly(res.getResourceId()) ) {

*context*.updateResource(res.getResourceId(),res.getData());

diff.putResource(res, **true**);

DTGatewayInterface.*getInstance*().

saveProject(IgnitionDesigner.*getFrame*(), diff,

**true**, "Committing ...");

**for**(ProjectResource pr:diff.getResources()) {

**if**( pr.isLocked()) pr.setLocked(**false**);

}

Project project = *context*.getProject();

project.applyDiff(diff,**false**);

project.clearAllFlags();

*context*.updateLock(res.getResourceId());

*context*.releaseLock(res.getResourceId());

}

**catch**(IllegalArgumentException iae) {

***. . .***

}

**catch**(GatewayException ge) {

***. . .***

}

sharedLock.unlock();

}

}