

Expressions – Using OGNL

Overview

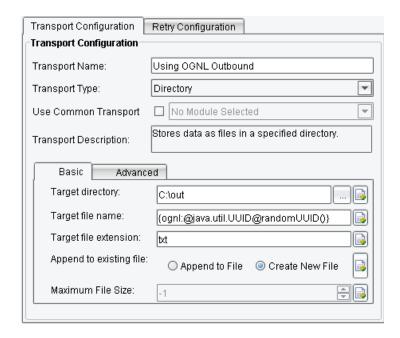
In this lab we will cover using OGNL expressions in configuration item values to allow for runtime evaluation of programmatic instructions. This lab expands on concepts covered in "Expressions – Properties," so users are expected to be familiar with that content.

Steps

1. Define a Directory Transport

Suppose we need a unique ID for a file's name. Using the java class "java.util.UUID" and it's static method called "randomUUID()" (which, as the name implies, generates a new "UUID" with a semirandom, unique value) create the file name.

That's the entirety of our expression. Placed into the Directory Transport configuration, it looks like this:





Whenever this Transport now executes, we'll get randomly named files, such as "264a5d08-55fe-44a9-9f7f-6121bee1fa50.txt"

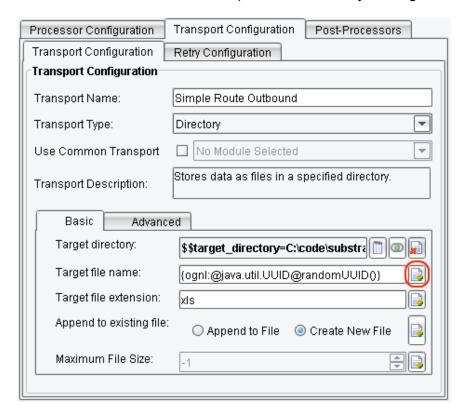
One other concept we'll briefly note is the OGNL context. The default context used by the eiConsole is the "TransactionAttributes" class, giving you access to transaction attributes. You can use this by specifying "#method" to access some method for the current transaction's attributes.

```
{ognl:<method>}
```

To fetch the attribute "com.pilotfish.FileName," which is created by the Directory Listener when files are picked up, we would provide:

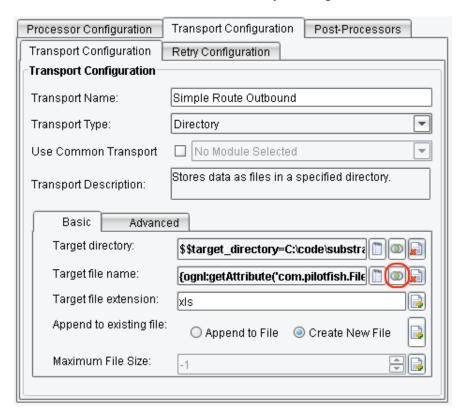
```
{ognl:getAttribute("com.pilotfish.FileName")}
```

We can activate the Enhanced Expression buttons by clicking the button on the right of our field:

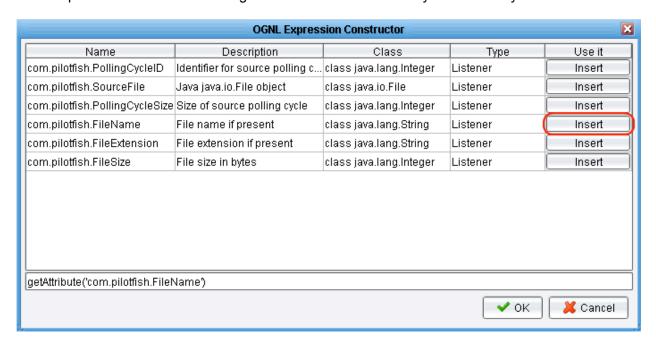




We can then invoke the OGNL builder by clicking the middle button:



Last step is to insert one of the Registered Attributes created by our Directory Listener:





Note that you can edit the OGNL expression in bottom field.

You can also read environment properties from OGNL using the following syntax:

```
@com.pilotfish.eip.config.EnvironmentConfigReader@getValue("X")
```

To instantiate an object from OGNL using the following syntax:

```
(new java.text.SimpleDateFormat('yyyyMMdd_HHmmss')).format(new
java.util.Date())
```

Reference: http://commons.apache.org/proper/commons-ognl/language-guide.html