

# GPFramesConfiguration

De Wiki

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## How to call it

There are several possibilities to call this:

- The simplest one:

```
framesConf = new GPFramesConfiguration("Label");
```

- to select by default configuration:

```
framesConf = new GPFramesConfiguration("Label ",  
    GPFramesConfiguration.GPFrameConfs.iers2010);
```

- to select the list of available configuration:

```
framesConf = new GPFramesConfiguration("Label ",  
    GPFramesConfiguration.GPFrameConfs.iers2010,  
    GPFramesConfiguration.GPFrameConfs.iers2003);
```

... or yet:

```
framesConf = new GPFramesConfiguration("Label");  
framesConf.setAvailableFrameConfs(  
    GPFramesConfiguration.GPFrameConfs.iers2010,  
    GPFramesConfiguration.GPFrameConfs.iers2003);
```

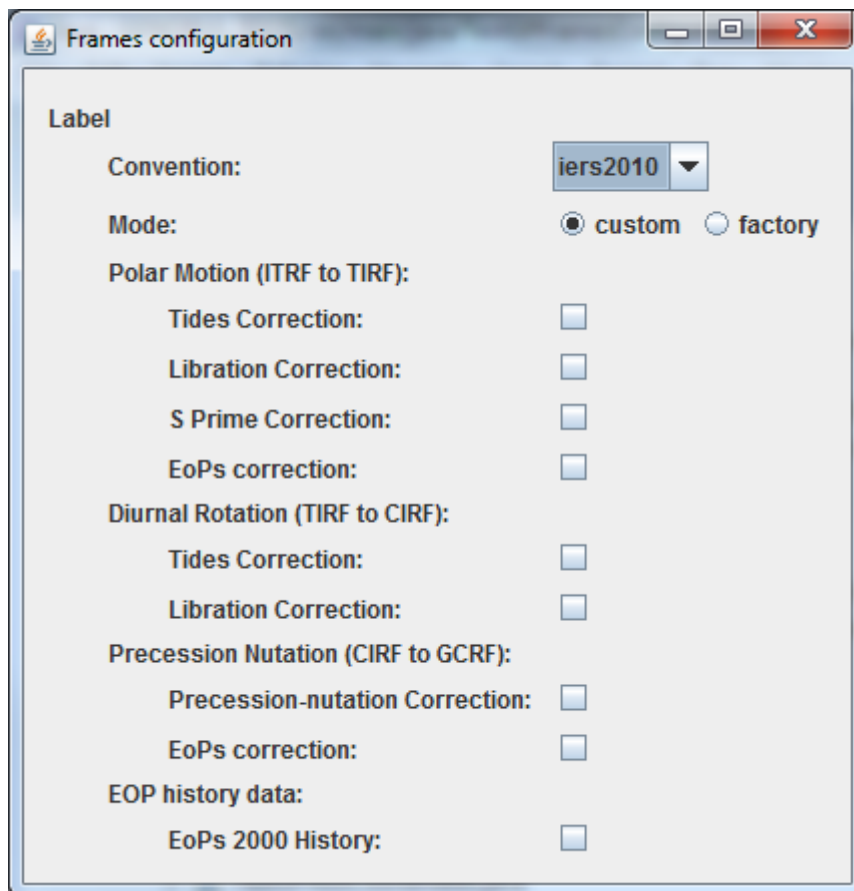
- to select the “factory” configuration as initial value and the list of available configuration:

```
framesConf =  
    new GPFramesConfiguration(GPFramesConfiguration.GPFrameConfs.iers2010,  
        "Label ",  
        GPFramesConfiguration.GPFrameConfs.iers2010,
```

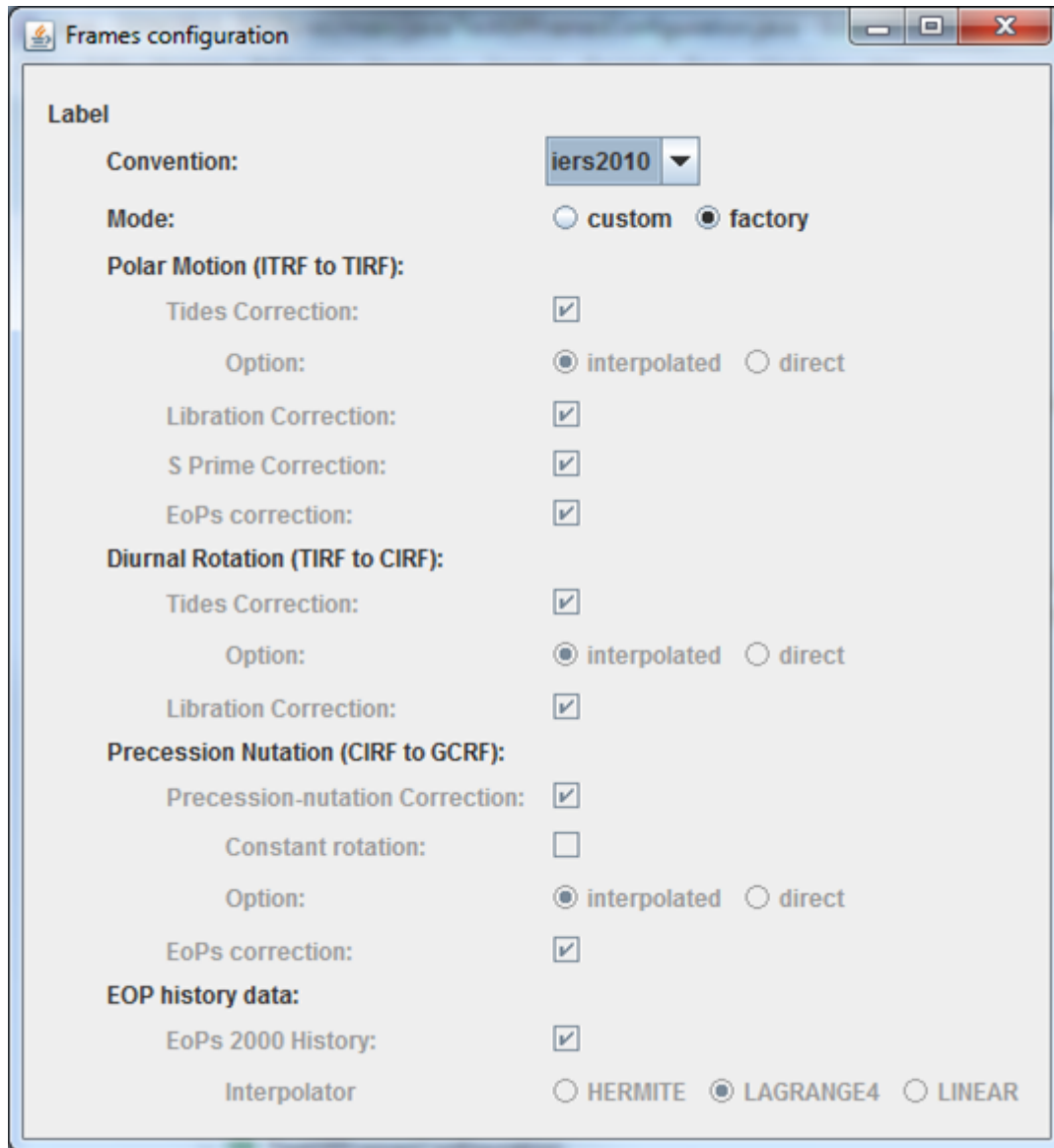
```
GPFramesConfiguration.GPFrameConfs.iers2003);
```

## Display

With the first example, we will have this display:



... as with the second one ...



## How to use it

To get a [\[PATRIUS\]](#) [FramesConfiguration](#) object, we will just have to call for the [getPatriusObject\(\)](#) method as below:

```
FramesConfiguration conf = framesConf.getPatriusObject();
```

## How it is stored

Here is the [XML](#) format for such a configuration:

```
<FramesConfiguration name="Label">
  <String name="type">iers2010</String>
  <String name="mode">factory</String>
  <Boolean name="tidesCorrectionPolarMotion">true</Boolean>
  <String name="tidesInterpOptionPolarMotion">interpolated</String>
  <Boolean name="librationCorrectionPolarMotion">true</Boolean>
  <Boolean name="spCorrection">true</Boolean>
```

```
<Boolean name="eopsForPolarMotion">true</Boolean>
<Boolean name="tidesCorrectionDiurnalRotation">true</Boolean>
<String name="tidesInterpOptionDiurnalRotation">interpolated</String>
<Boolean name="librationCorrectionDiurnalRotation">true</Boolean>
<Boolean name="precNutCorrection">true</Boolean>
<Boolean name="precNutConstantRotation">false</Boolean>
<String name="precNutInterpOption">interpolated</String>
<Boolean name="eopsForNutation">true</Boolean>
<Boolean name="eopsCorrection">true</Boolean>
<String name="eopsInterpolator">LAGRANGE4</String>
</FramesConfiguration>
```

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