

# Maneuvers Estimation And Pdf Report

De Wiki

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To get an estimation of the occurred maneuvers, it is only necessary to initialize [[PATRIUS dataset](#)] and a list of **TLE** as shown [here](#) and below . Anyway, it is also recommended to load a configuration properties file as shown below and [here](#), at least to well initialize internal **OPERA** data.

```
// Patrius Dataset initialization (needed for example to get the UTC time)
OperaReadUtils.iniPatriusDataset(null);
```

```
// Opera properties configuration
final OperaConfigurationProperties conf =
OperaReadUtils.getConfigurationProperties("data/opera-
configuration.properties");
```

```
// TLEs initialization
final int noradId = 10479;
final SortedSet<TLE> tlesSet = OperaTleManager.readTLEs("data/tles",
noradId);
```

Moreover, these **TLE** will be stored in [OperaTLESeries](#) then [OperaTLEManoeuvres](#) objects:

```
final OperaTLESeries tleSeries = new OperaTLESeries(tles);
final OperaTLEManoeuvres tleForMan = new OperaTLEManoeuvres(tleSeries);
```

Then, the computation of the estimated maneuvers will be done thanks to calling the [estimateLEOManoeuvres\(\)](#) method of this [OperaTLEManoeuvres](#) object:

```
// Maneuvers estimation
final OperaLEOManoeuvres manInfo = tleForMan.estimateLEOManoeuvres();
```

Some getters will be available to obtain results as in the example below ...

```
final int manNum = manInfo.getDgaManoeuvres().size();
System.out.println("Amount of maneuvers: " + manNum);
for (int iMan = 0; iMan < manInfo.getSmaManoeuvresDates().size(); iMan++) {
    System.out.println("Maneuver #" + iMan);
    System.out.println("    maneuver date: " +
OperaDateManager.cnesJulianDate2AbsoluteDate(manInfo.getSmaManoeuvresDates().
get(iMan)));
    System.out.println("    maneuver dga: " +
manInfo.getDgaManoeuvres().get(iMan).getSma() + " m");
}
```

At last, it will be also possible to generate automatically a **PDF** report as this:

```
// Pdf generation
final String path = tleForMan.buildLE0ManReport(noradId, conf);
System.out.println("Pdf report generated at " + path);
```

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