

Main differences between V11.5 and V11.6.2

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Dependencies

This version uses [GENOPUS](#) V2.3.3, [GENIUS](#) V1.11.4 and [PATRIUS](#) V4.8.

Package names

Package have been renamed to be consistent with other tools. So, they starts with **fr.cnes.dynvol.psimu** ... When using the **GUI** mode, no change is visible but, when using the **Java** interface, an update of the import will be necessary.

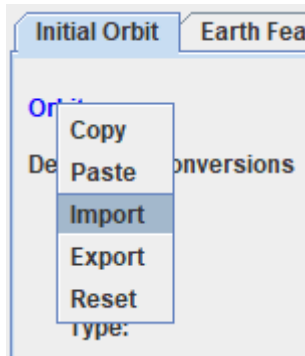
Events logs improvements

Logs for events are improved as all the events are taken into account and not only the ones defined in the [Events panel](#):

- First and last point
- Start and end of a maneuver (even in case of an impulsive one to see the discontinuity)
- Start and end of each attitude change.

Orbit file as output

There is now the possibility to store the final orbit parameters in a specific file. These parameters will be cartesian ones in the inertial output frame defined in [Output panel](#). And, of course, this file can be imported directly in the **"Initial Orbit"** panel!



New EXM and EYM variables

Two new variables have been added corresponding to the components of the mean eccentricity vector: **EXM** and **EYM**.

Note also that now, these variables as well as **EX** and **EY** (components of the osculating eccentricity vector) corresponds exactly to:

$$Ex = \cos(w) \text{ and } Ey = \sin(w)$$

... as, previously, these variables was considered as the components for equinoctial parameters.

Complex potential for third bodies

Inline with the new [GPForceModels](#) widget from [GENOPUS](#), there is now the possibility to consider complex potential fields for third bodies.

More explicit console output

Console output is more explicit now as described [here](#).

Events names getter

Methods are available to get the events names (see [PsimuUsingUtils](#) class in [TutorialsForV11.6](#))

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