

# Main differences between V11.5 and V11.6.2

De Psimu

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La version imprimable n'est plus prise en charge et peut comporter des erreurs de génération.

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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:

$$\text{Ex} = \text{ecos}(w)$$
 and 
$$\text{Ey} = \text{esin}(w)$$

... 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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