

# Main differences between V2.3.3 and V2.4.1

De Wiki

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Except the fact that this version uses new [\[GENIUS\]](#) and [\[PATRIUS\]](#) versions, the main evolutions concerns the [GPOrbit](#) widget

## New PATRIUS and GENIUS version

As defined [\[here\]](#), this version uses [\[GENIUS\]](#) V1.12.1 and [\[PATRIUS\]](#) V4.10.2. Moreover, the widgets have been validated using [\[PATRIUS\\_DATASET\]](#) V1.4.3.

## New GPOrbit fonctionnalités

- It is now possible to enter an initial orbit using mean parameters. Conversions will also be possible between different mean models and osculating parameters.
- Validity intervals for input parameters are better taken into account.
- Tooltips are available to describe the type of parameters, for example in case of formulae as for the  $h_x$ ,  $h_y$  vector for equinoctial parameters:

Equinoctial Parameters \*

a: *	<input type="text" value="7000.0"/>	<a href="#">km</a>
ex: *	<input type="text" value="0.0"/>	
ey: *	<input type="text" value="0.0"/>	
hx: *	<input type="text" value="0.0"/>	
hy: *	<input type="text" value="0.0"/>	
Lo	Second component of the inclination vector: $h_y = \tan(i/2) * \sin(\Omega)$	
μ: *	<input type="text" value="398600.4415"/>	<a href="#">km^3/s^2</a>

Select

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