

# Main differences between V2.2.1 and V2.3.3

De Wiki

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## Dependencies

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

## GPOrbit widget improvements and corrections

- Previously, when the user modified the type of orbit parameters, if this type owned an anomaly as one of its parameter, this one went back automatically to a true anomaly or the one corresponding to the **"Pivot"**. Now, the widget will keep the anomaly originally displayed.
- On angles parameters, warning occurred when values are outside **[-180 deg, +360 deg ]**.
- Pattern for date offset entries have been improved.
- Previously, when the user modified **"n"** or **"lon"** values for **"H0-n"** frames definition without selecting the **"Deactivate conversion"** option, the frame conversion was not done.

## GPFramesConfiguration improvement

This widget now takes into account the possibility to use an **"EOPs constant"** option to keep the last value of **EOPs** when no ones are available after a given epoch. Moreover, the error messages have been improved, especially when using the **GpOrbitConvertor** tool.

## GPCovariance widget

A new widget [GPCorrelation](#) (and some utilities methods) is now available which allows to work with correlation or covariance matrices.

## GPForceModels improvement

[GPForceModels](#) has now the possibility to consider complex potential fields for third bodies (by using a new constructor).

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