

# Main differences between V2.1 and V2.1.1

De Wiki

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[Main differences between V2.1 and V2.1.1](#)

This version is mainly due to the correction of two anomalies listed below ...

## Improvement of interfaces with GPIntegrator/GPDop853 widgets

To better use these widgets, some methods have been Added:

- in [GPIntegrator](#) widget :
  - a getter to know which type of integrator has been selected.
  - a getter to know which kind of tolerances has been selected.
  - two getters to directly get the widgets used for min and max step of the **Dormand Price 853** integrator (needed to manage externally a "before/after" action on them).
  - a setter allowing displaying or not tolerances on the mass.
- in [GPIntegrator](#) and [GPDop853](#) widgets:
  - validity intervals and methods to modify them. By default, these intervals are:
    - constant time step  $> 0$
    - $0 < \text{min step} \leq \text{max step}$
    - absolute tolerances  $> 0$
    - relative tolerances  $\geq 0$ .
  - methods to get reduced tolerances (see corresponding anomalies).
- in [GPDop853](#) widget :
  - method to get the widget giving help for tolerances definition (needed to manage externally a "before/after" action on it).

At last, some constructor and methods, will potentially throw a [GIntervalException](#) (and no more a [GPDateException](#) which was not useful).

## Anomaly corrections

- Saving displayed orbit as well as the "pivot" reference is now correctly working. Indeed, in the previous V2.1 version:
  - if the user only modified the type of anomaly then saved, this change was not recovered in the saved file. Thus, the next load displayed the original type of anomaly.
  - if the user modified the type of parameters and afterwards changed again the type of anomaly, for display, only the type of parameters was saved and the next load displayed a true anomaly. Note that anyway, even in this new version, when you change the type of parameters, the anomaly is automatically set to "true".
- In the [GPIntegrator](#) widget, updating tolerances was not correctly done for "Reduced" mode.

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