Integrator

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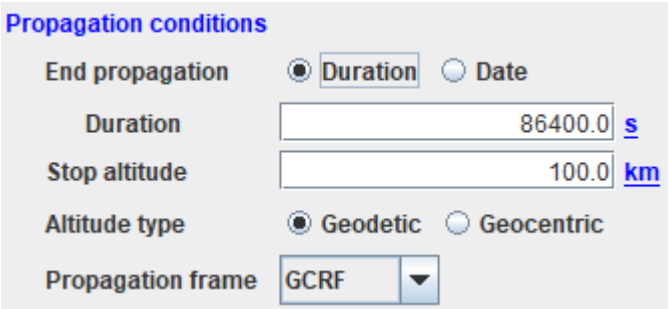
Integrator

In this tab we have to kind of information:

Propagation data

First, data linked to the propagation with:

- Duration or date criteria for the end of the propagation
- Value of the duration or the date of the end of the propagation
- Altitude of the end of the propagation
- Type of altitude (since V11.4)



Note: the propagation will stop once the first event (date or altitude) will occur.

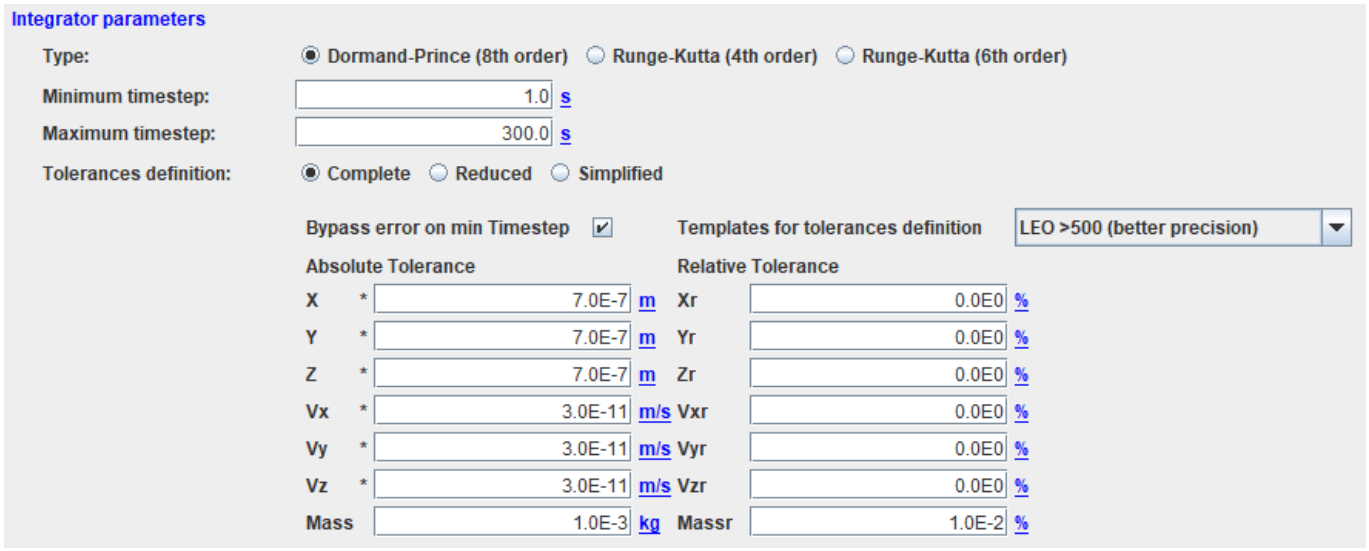
Note: it is possible to retro propagate a trajectory by giving a negative duration or a date previous to the initial one.

- Frame used for the propagation (only inertial ones among **CIRF**, **EME2000** and **GCRF**); the first one is recommended in term of CPU time.

Numerical integrator

Then, we will have numerical integrator tuning:

- If the user chooses a Runge Kutta, only the step will have to be entered
- If the Dormand Price is selected the user will have to tune min/max steps and tolerances (but by default values are available).



Note: since V11.4 and due to the V4.4 version of PATRIUS a specific option is available to by-pass the error mode when minimum step is reached. In that case, the precision given by tolerances will not be reached but the propagation will go on.

Note: since V11.4 some typical tuning is proposed depending on the kind of orbit and the desired precision.

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