

# Main differences between V4.6 and V4.5.1

De Wiki

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**PATRIUS** V4.6.1 is a major release adding some new features and correcting some bugs.

## New functionalities

- Add Mean  $\Leftrightarrow$  Osculating 2D analytical conversion through classes Analytical2DPropagator and Analytical2DOrbitModel.
- Add model DTM-2012 through class DTM2012
- Add celestial body defined by facets such as Phobos: FacetCelestialBody. This class efficiently performs some standard computations on the body (intersection, eclipse computation, etc.)
- Add STELA Moon-Sun model up to order 8
- Add Synodic frame through class SynodicFrame
- Add 2nd order Cowell integrator through class CowellIntegrator. This integrator can be used with PATRIUS numerical propagator and possesses same features as PATRIUS 1st order integrators
- Add pole tides force through class PoleTides

## Bugs fixes

- Correction of SP3 reader (velocity only)
- Correction of TLE reading when B\* is of the form 1E-x

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