

# Main differences between V4.12 and V4.11

De Wiki

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**PATRIUS** V4.12 is a major release adding some new features and correcting some bugs.

## New functionalities

- GeodeticPoint concept disappears and is replaced by the new BodyPoint interface, implemented by AbstractBodyPoint, EllipsoidPoint and FacetPoint.
- The BodyShape interface and its implementations OneAxisEllipsoid and FacetBodyShape are reorganized
- Coordinates types are expressed through the new LLHCoordinates enumerate
- Methods closestPointTo in BodyShape, FacetBodyShape and OneAxisEllipsoidBodyShape are now symmetrized
- TopocentricFrame, AbstractProjection and TargetGroundPoint now store a BodyPoint instead of a BodyShape + GeodeticPoint

## Bugs fixes

- Correction of an anomaly with the acceleration when defining a Transform translation

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