

Catégorie:User Manual 3.3 Mission

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Introduction

This section presents the events and visibility aspects of the PATRIUS library. First of all, it is necessary to manage the event detection during the propagation, to that purpose, a smart mechanism has been developed in the Commons Math library and repeated in OREKIT when it comes to propagate with an AbstractPropagator. In OREKIT, it is possible to register during the propagation the detected events. A new conception has been developed on this basis in order to create a list of CodedEvent (code + comment + date) during the propagation as well as a list of Phenomenon. Then, the user can perform a post processing on the generated events list and phenomena list thanks to several filters.

Applicable and Reference Documents

Applicable Documents

[A1] *CDCF - Fonctions de Base du Patrimoine de Dynamique du Vol*, V1.2, SIRIUS-CF-DV-0049-CN, 2011.

[A2] *Dossier de réutilisation Orekit et Commons Math*, V1.0, SIRIUS-DLR-DV-0080-CN, 2010.

Reference Documents

[R1] *Apache License*, Version 2.0, January 2004, [\[1\]](#).

Glossary

None applicable.

Overview

The following themes are discussed in this section:

- **Events detection**
- **Post processing on events and phenomena**
- **Maneuvers**
- **Projections**

Package List

The following themes are discussed in this section:

- [Events detection: Presentation](#)
- [Events: orbital](#)
- [Events: sensors](#)
- [Events: ground stations and satellites](#)
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- [Postprocessing](#)
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