

Catégorie:User Manual 4.7 Mission

De Wiki

Aller à : [navigation](#), [rechercher](#)

[Catégorie:User Manual 4.9 Orbit Propagation](#) > [Catégorie:User Manual 4.7 Attitude](#) > [User Manual 4.13 Assemblies in PATRIUS: Building and using an assembly](#) > [User Manual 4.9 Fields of view](#) > [Catégorie:User Manual 4.7 Mission](#)

Sommaire

- [1 Introduction](#)
- [2 Applicable and Reference Documents](#)
 - [2.1 Applicable Documents](#)
 - [2.2 Reference Documents](#)
- [3 Glossary](#)
- [4 Overview](#)

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 developped in the math package and repeated in Patrius when it comes to propagate with an AbstractPropagator. In Patrius, it is possible to register during the propagation the detected events. A new conception has been developped 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**

Pages dans la catégorie « User Manual 4.7 Mission »

Cette catégorie contient 8 pages, dont les 8 ci-dessous.

U

- [User Manual 4.7 Events detection: Presentation](#)
- [User Manual 4.7 Events: ground stations and satellites](#)
- [User Manual 4.7 Events: orbital](#)
- [User Manual 4.7 Events: sensors](#)
- [User Manual 4.7 Maneuvers](#)
- [User Manual 4.7 Multi events detection](#)
- [User Manual 4.7 Postprocessing](#)
- [User Manual 4.7 Projections](#)

Récupérée de

« http://patrius.cnes.fr/index.php?title=Catégorie:User_Manual_4.7_Mission&oldid=2889 »
[Catégorie](#) :

- [User Manual 4.7](#)

Menu de navigation

Outils personnels

- [3.129.57.117](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

Espaces de noms

- [Catégorie](#)
- [Discussion](#)

Variantes

Affichages

- [Lire](#)
- [Voir le texte source](#)
- [Historique](#)
- [Exporter en PDF](#)

Plus

Rechercher

PATRIUS

- [Welcome](#)

Evolutions

- [Main differences between V4.13 and V4.12](#)
- [Main differences between V4.12 and V4.11](#)
- [Main differences between V4.11 and V4.10](#)
- [Main differences between V4.10 and V4.9](#)
- [Main differences between V4.9 and V4.8](#)
- [Main differences between V4.8 and V4.7](#)
- [Main differences between V4.7 and V4.6.1](#)
- [Main differences between V4.6.1 and V4.5.1](#)
- [Main differences between V4.5.1 and V4.4](#)
- [Main differences between V4.4 and V4.3](#)
- [Main differences between V4.3 and V4.2](#)
- [Main differences between V4.2 and V4.1.1](#)
- [Main differences between V4.1.1 and V4.1](#)
- [Main differences between V4.1 and V4.0](#)
- [Main differences between V4.0 and V3.4.1](#)

User Manual

- [User Manual 4.13](#)
- [User Manual 4.12](#)
- [User Manual 4.11](#)

- [User Manual 4.10](#)
- [User Manual 4.9](#)
- [User Manual 4.8](#)
- [User Manual 4.7](#)
- [User Manual 4.6.1](#)
- [User Manual 4.5.1](#)
- [User Manual 4.4](#)
- [User Manual 4.3](#)
- [User Manual 4.2](#)
- [User Manual 4.1](#)
- [User Manual 4.0](#)
- [User Manual 3.4.1](#)
- [User Manual 3.3](#)

Tutorials

- [Tutorials 4.5.1](#)
- [Tutorials 4.4](#)
- [Tutorials 4.1](#)
- [Tutorials 4.0](#)

Links

- [CNES freeware server](#)

Navigation

- [Accueil](#)
- [Modifications récentes](#)
- [Page au hasard](#)
- [Aide](#)

Outils

- [Pages liées](#)
- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Adresse de cette version](#)
- [Information sur la page](#)

- Dernière modification de cette page le 7 mai 2021 à 07:15.

- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)

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