

# User Manual 4.5 Orientation

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## Introduction

### Scope

The purpose of this chapter is to describe the orientation package.

An orientation provider is an interface that provides methods to return an angle as a function of a spacecraft state.

### Javadoc

#### Library

#### Javadoc

Patrius [Package fr.cnes.sirius.patrius.attitudes.orientations](#)

### Links

None as of now.

### Useful Documents

None as of now.

### Package Overview

## Features Description

The orientations package is designed similarly to attitude providers:

- An interface `OrientationAngleProvider` returns an angle given a spacecraft state (similarly to `AttitudeProvider` which returns an `Attitude`)
- An interface `OrientationAngleLaw` gathers orientation laws and is similar to `AttitudeLaw`
- An interface `OrientationAngleLeg` is a time-bounded leg and is similar to `AttitudeLeg`
- An interface `OrientationAngleProfile` is a profile of orientation angles and is similar to `AttitudeProfile`
- A class `OrientationAngleLawLeg` is a law leg and is similar to `AttitudeLawLeg`
- A class `OrientationAngleLawLegsSequence` is a sequence of `OrientationAngleLawLeg` and is similar to `AttitudeLawLegsSequence`
- A class `OrientationAngleProfileSequence` is a sequence of `OrientationAngleProfile` and is similar to `AttitudeProfileSequence`

Note: the package currently does not provide any implementation of `OrientationAngleProvider` interface except for constant angles.

# Getting Started

Use is identical to attitudes. See the page for examples.

## Contents

### Interfaces

Interface	Summary	Javadoc
<b>OrientationAngleProvider</b>	Interface for all orientation angles providers.	<a href="#">...</a>
<b>OrientationAngleLaw</b>	Interface for all orientation angles lasw.	<a href="#">...</a>
<b>OrientationAngleLeg</b>	Interface for all orientation angles legs.	<a href="#">...</a>
<b>OrientationAngleProfile</b>	Interface for all orientation angles profiles.	<a href="#">...</a>

### Classes

Class	Summary	Javadoc
<b>OrientationAngleLawLeg</b>	Orientation angle law leg.	<a href="#">...</a>
<b>OrientationAngleLawLegsSequence</b>	Sequence of Orientation angle legs.	<a href="#">...</a>
<b>OrientationAngleProfileSequence</b>	Sequence of Orientation angle profiles.	<a href="#">...</a>

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