

# Main differences between V1.5 and V1.6

De Wiki

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

[Main differences between V1.5 and V1.6](#)

Some minor evolutions and corrections have been implemented in this version. No incompatibility has been identified on V1.5 code source.

## Sommaire

- [1 Creation of the GEntryConstant widget](#)
- [2 Creation of the GStandardApplication widget](#)
- [3 Creation of class and methods to build VTS files](#)
- [4 Unique GUnit class](#)
- [5 Possibility to set the minimum and maximum amount of elements in GComponentList](#)
- [6 Not useful scrollbars in GComponentList](#)
- [7 Possibility to get one or several columns data with the getColumnns\(\) method of GPlotDataMadonaReader](#)
- [8 Evolution of GCommandLauncher to allow two different GTextArea interfaces \(Output & Error\)](#)
- [9 Non recoverable exceptions management](#)
- [10 Anomaly corrections](#)

## Creation of the GEntryConstant widget

This widget is a specific [GEntryConstant](#) widget offering the display of a dedicated button to get predefined values. It is useful for specific physical "constants" that depend on a model as gravitational term, equatorial radius, etc ...

## Creation of the GStandardApplication widget

Specific widgets have been created to get a "standard" main application frame (see specific [How to build a Standard Application GUI](#) topic)

## Creation of class and methods to build VTS files

It is now possible to use the objects to create VTS files (ephemeris, attitude and event ones):

- [VTSHeaderInfo](#)
- [VTSEPHWriter](#)
- [VTSATTWriter](#)
- [VTSEVEWriter](#)

## Unique GUnit class

The internal units management has been slightly modified in order not to have specific units for temperatures and percentages. This management also allows to manage consistency between

different units (i.e. « km » is consistent with « m »). This functionality is mainly used by the [GPlotPanel](#) widget.

## Possibility to set the minimum and maximum amount of elements in GComponentList

It is now possible to set a minimum and/or maximum values for the size of the list displayed (useful if the widgets are memory consuming and may cause some **JVM** memory error).

=> possible compilation error due to the add of an exception when using the [setList\(\)](#) method.

## Not useful scrollbars in GComponentList

A side effect of a V1.5 evolution was the fact that, by default, a [GPanel](#) has its horizontal and vertical scrollbars activated (if needed). As [GComponentList](#) creates intermediate [GPanel](#), it ensued a not very ergonomic scrollbar stacking. Now, these intermediate scrollbars do not appear anymore.

## Possibility to get one or several columns data with the getColumns() method of GPlotDataMadonaReader

In the previous version, this method allowed getting to data columns : one for the abscissae, the other for the ordinates. Now it is possible to get as many columns as possible.

## Evolution of GCommandLauncher to allow two different GTextArea interfaces (Output & Error)

Modification of [GCommandLauncher](#) to allow to send **stdout** and **stderr** flows towards two different [GTextAreaInterface](#). If only one [GTextAreaInterface](#) is given, both **stdout** and **stderr** will be sent.

## Non recoverable exceptions management

Some exceptions cannot be directly caught. As an example, in the previous versions, we may raise an exception when we enter a wrong date format in a [GEntryDate](#) field. The result was displaying a pop up window including the stack trace of the error which is not very ergonomic. Now this sort of pop up windows will not appear but is possible for your application to get it or to have a specific pop up window. A specific tutorial is available in the [Tutorials](#).

## Anomaly corrections

- Error when reading a date with [GPlotDataMadonaReader](#): in the previous version, reading a date could occur up to one second error.
- After a copy-paste action on a [GTable1D](#) widget, the result was a single modified vector with only one modified value and no change on the size of the vector. Moreover, the "\*" sign did not appear.

[Return to the introduction ↑](#)

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# Menu de navigation

## Outils personnels

- [18.117.196.217](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

## Espaces de noms

- [Page](#)
- [Discussion](#)

## Variantes

## Affichages

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

## Plus

## Rechercher

## GENIUS

- [Welcome](#)
- [Quick Start](#)
- [News](#)

## Basic principles

- [GFrame and GPanel](#)
- [Main widgets](#)
- [Links with Swing](#)
- [GLayout](#)

- [Conditional Display](#)
- [GListener interface](#)

## **More deeper in the concept**

- [Units management](#)
- [GContainer](#)
- [GReadWrite interface and data files management](#)
- [Modified data](#)
- [Process management](#)

## **Still more ...**

- [Validity controls](#)
- [Menu bar](#)
- [Icons](#)
- [GClear interface](#)

## **Still more again ...**

- [Tooltips](#)
- [Shortcuts](#)
- [Copy & paste](#)
- [Plots](#)
- [Results File Management](#)
- [GPlotPanel](#)
- [GGroundPlotPanel](#)
- [Internationalization](#)
- [Log file](#)
- [Update data](#)

## **Some other widgets**

- [GTabbedPane](#)
- [GTable1D](#)
- [GTable2D](#)
- [GComponentList](#)
- [GDialog and GDetachedPanel](#)
- [GContextFileManagement](#)
- [How to build a standard application](#)
- [GPanTest](#)
- [Create your own widget](#)

## **Evolutions**

- [Main differences between V1.11.4 and V1.12.1](#)

- [Main differences between V1.10.1 and V1.11.4](#)
- [Main differences between V1.10 and V1.10.1](#)
- [Main differences between V1.9.1 and V1.10](#)
- [Main differences between V1.9 and V1.9.1](#)
- [Main differences between V1.8 and V1.9](#)
- [Main differences between V1.7 and V1.8](#)
- [Main differences between V1.6.2 and V1.7](#)
- [Main differences between V1.6.1 and V1.6.2](#)
- [Main differences between V1.6 and V1.6.1](#)
- [Main differences between V1.5 and V1.6](#)
- [Main differences between V1.4.1 and V1.5](#)
- [Main differences between V1.3 and V1.4.1](#)

## Training

- [Training slides](#)
- [Tutorials package for V1.12.1](#)
- [Tutorials package for V1.11.4](#)
- [Tutorials package for V1.10.1](#)
- [Tutorials package for V1.9.1](#)
- [Training & tutorials package for V1.8](#)
- [Training & tutorials package for V1.7](#)
- [Training & tutorials package for V1.6](#)

## Links

- [CNES freeware server](#)

## Outils

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

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

