

In the specific field of **radiations** and **shielding analysis**, reference tools like GEANT-4 or ESA/GRAS require as an input the **geometrical description** of modelled spacecrafts in the **Geometrical Description Markup Language GDML**.

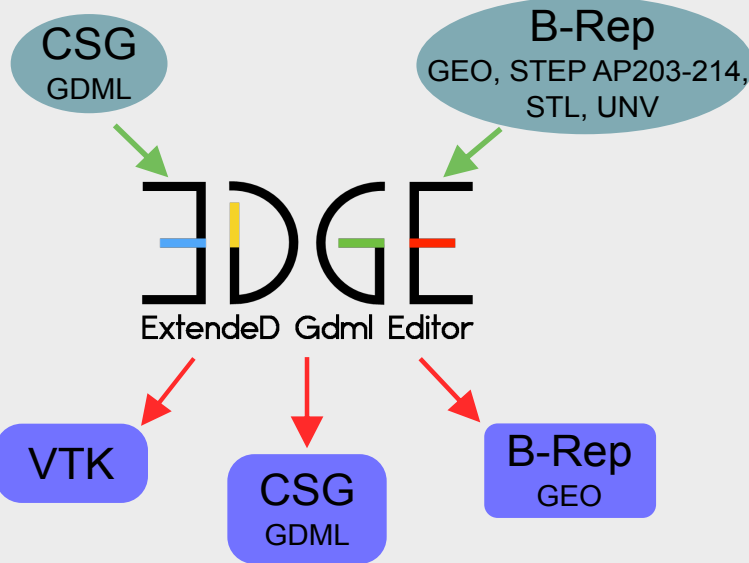
**EDGE**, or **Extended Gdml Editor**, is a new **WYSIWYG** CAD GDML. EDGE innovation spares the users the time consuming manual edition they had to perform.

**EDGE is a new complete GDML Editor**

EDGE provides features to easily create or modify GDML files:

- a user-friendly interface
- a powerful manager of shapes properties
- a real time 3D viewer
- edition of material properties

EDGE is developed mainly in Java and is based on the CAD module of the Keridwen **I**ntegrated **M**odelling **E**nvironment, as well as other Artenum technologies. As a fully compliant OSGi bundle, EDGE can be used in tailored scientific software like SPIS, but also as a standalone application.



EDGE originality is its ability to easily handle complex levels of hierarchy.

It can design the fundamental shapes defined in GDML, modify their properties (size, position, rotation, material) separately or as a group.

To model more complex geometries, EDGE can import tessellated shapes from a B-Rep format.

EDGE is distributed as part of

SPIS-Services

European professional services for spacecraft charging

<http://www.spis-services.eu>



EDGE is available on Linux 64 bits, MS Windows 7 and Apple Mac OS X

For further information, please visit our website at [www.artenum.com](http://www.artenum.com)

or contact us at [contact@artenum.com](mailto:contact@artenum.com)