
Note of validation tool-trade MAC3_Maillage

Summary:

This document described validation tool-trade MAC3_Statique for the generation of the grids for calculations MAC3.

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1 Presentation of the interface

1.1 Description

The tool trade is in **Outils**→ **Extensions**→ **salome_meca**→ **MAC3_Maillage**

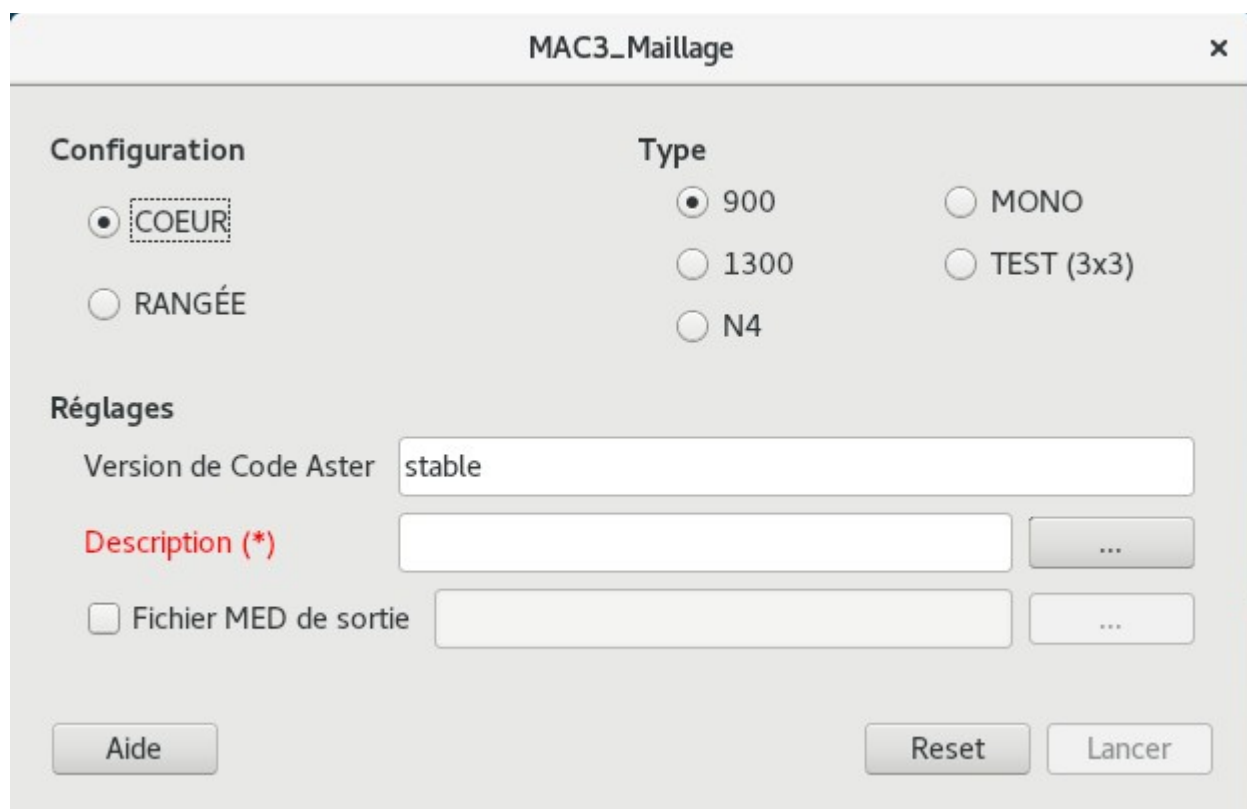


Figure 1.1-1: IHM of the tool-trade

Adjustments:

1. **Configuration.** Configuration of the grid in whole heart or line.
2. **Typ E** . Type of engine 900.1300 or N4
3. **Version of Code Aster.** Version of code_aster whose deposit dated will be used.
4. **Description** . File json containing the type technological of the assemblies for each position in the heart/arranged.
5. **Left file MED**, optional.

Orders :

1. **Assistance** : open the embarked assistance
2. **Reset** : the IHM resets
3. **To launch** : launch the generation of the grid

1.2 Graphic receipt

In the repertoire of installation, the file *share/Salome/resources/test/dated* files of description are available to the format json which make it possible to test the whole of the features of the tool.

In total eight tests are to be realized:

Test	Configuration	Type	Description	Version aster
1	Heart	900	MAC3_Core900.json	stable
2	Heart	1300	MAC3_Core1300.json	stable
3	Heart	N4	MAC3_CoreN4.json	stable
4	Heart	MONO	MAC3_MONO.json	stable
5	Heart	TEST	MAC3_TEST.json	stable
6	Line	900	MAC3_Row900.json	stable
7	Line	1300	MAC3_Row1300.json	stable
8	Line	N4	MAC3_RowN4.json	stable

For each one of these tests, to save the grid in different files MED, then to import them in module SMESH and to check that the number of meshes corresponds in the following table:

Test	Configuration	Type	Many meshes
1	Heart	900	32896
2	Heart	1300	49708
3	Heart	N4	52820
4	Heart	MONO	276
5	Heart	TEST	1340
6	Line	900	3248
7	Line	1300	4000
8	Line	N4	4000