Note of receipt of Salome_meca

Summary:

This documentation describes the method to carry out the receipt of an installation of salome_meca on a local station. It can be a question of the diffused version in-house EDF or version LGPL diffused into external. One described there more precisely the launching of the tests provided with the versions of code_aster embarked and of the tests of the various tools of the platform salome_meca.

This document aims at:

- to formalize a approach of receipt of the platform salome_meca,
- to allow a Research department to check according to the same criteria as EDF the good installation of a version of salome_meca,
- to allow the EDF client to control the good performance of a version installed locally at a person receiving benefits if it were used for final calculations.
1 Launching of the tests associated with the solvor code_aster

It is necessary to have proceeded to the installation of the platform salome_meca by using the instructions available on the site www.code-aster.org after having downloaded the ad hoc version.

The procedure of receipt described below was validated for the versions of Salome_meca starting from the version 2018. It is a question of starting the tests embarked in (them) the version (S) of the solvor Code_aster embarked (be).

Salomé integrates a script allowing to start tests. This script perhaps used automatically to launch the whole of the base of tests delivered and to carry out an assessment which it is easy to compare with that appearing in the card quality of the version of exploitation (A0 booklet of handbook A of documentation Code_aster). Possible variations compared to the list of the tests mentioned as stopping in error must be announced to the team project R & D so that she decides.

The order which makes it possible to launch the procedure of receipt is for example:

```
Salome test - L ASTER_VERIFICATION_SEQUENTIAL - R ASTER_XX
```

The number tests started into simultaneous (8 in the example) must be adapted to the platform used and the number of hearts available, and ASTER_XX must be adapted to the version tested (for example ASTER_14 to isolate the tests from the version 14).

Note:
If the tests are carried out on distant machine, it is necessary to activate the “display access control”, it is thus necessary to use the option - X or there at the time of connection HS to the machine tested:

```
HS - X machine_cible
```

At the end of the execution the assessment is displayed in the terminal:

```
3360/3362 Test #7687: ASTER_14.4.0_zzzz367a ............ Passed 17.67 dryness
3361/3362 Test #7681: ASTER_14.4.0_zzzz364a ............ Passed 68.67 dryness
3362/3362 Test #7623: ASTER_14.4.0_zzzz337b ............ Passed 146.09 dryness
```

Assessment aster 14.4 in salome_meca 2019.0.1

99% tests passed, 11 tests failed out of 3694

Label Time Summary:

```
ASTER_14.4.0                     = 116067.30 sec*proc (3694 tests)
ASTER_VERIFICATION_SEQUENTIAL    = 116067.30 sec*proc (3694 tests)
SMECA_INTEGR                     = 201.06 sec*proc (8 tests)
```

Total Test time (real) = 14623.85 dryness

The following tests FAILED:

```
1372 - ASTER_14.4.0_rtool01e (Failed)
1479 - ASTER_14.4.0_sdill123d (Failed)
1730 - ASTER_14.4.0_sdlx104a (Failed)
1846 - ASTER_14.4.0_sdnv105c (Failed)
1851 - ASTER_14.4.0_sdnv108a (Failed)
2696 - ASTER_14.4.0_ssnl133e (Failed)
3569 - ASTER_14.4.0_ssnv250e (Failed)
3599 - ASTER_14.4.0_ssnv256a (Failed)
4231 - ASTER_14.4.0_zzzz151a (Failed) ok, code incorrect return but without error
```

Errors while running CTest

It is then necessary to compare the result of the passage of the tests with the card quality of the associated version (cf. for example [A0.03.40] “Card Quality of the version of exploitation of Code_aster : version 14 ”).

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For the tests in variations, it is necessary to start again test by using the following order:

```
Salome test - R ASTER_YY.Y.Y_xxxx - V
```

with `YY.Y.Y` the version of `Code_hasster` considered and `xxxx` the name of the test, for example:

```
Salome test - R ASTER_14.4.0_zzzz151has -V
```

and to make follow the log to the team project R & D so that she comes to a conclusion about the gravity of the variation.

## 2 CAS-tests of graphic validation of the platform Salome_meca

There does not exist for the time being automatic procedure of launching of the CAS-tests of graphic validation of salome_meca. The procedure consists in testing the installation manually while following the instructions of the handbooks contained in booklets SV1, SV2 and SV3 of documentation salome_meca.
3 Launching of the associated tests with the platform salome_meca

It is possible to start the tests of the various tools of the platform salome_meca by using the following order:

```
./salome test - L SMECA
```

This order will start the tests provided for the various software embarked specifically for the platform, of which a limited selection of the tests of the versions of the solver code_aster. It produces for example for the version 2017 the following exit:

```
Test project /home/I27518/salome_meca/appli_V2017/bin/salome/test
  1/197 Test #829: EDYOS_edyos.tests.unittest_entity_form.ComplexEntityFormTC ............ Passed   6.35 dryness
  90/197 Test #918: EDYOS_edyos.tests.unittest_validation.PapaTehdCalculationTC ............ Passed   2.96 dryness
  91/197 Test #919: MT_MT_sd11124a ........................................................ Passed 11.06 dryness
  114/197 Test #942: MT_MT_sd1126f ........................................................... *** Failed 1163.64 dryness
  133/197 Test #961: MT_MT_sd11126f ............................................................ Passed   8.43 dryness
  134/197 Test #962: OMA_coude ................................................................. Passed 35.17 dryness
  135/197 Test #963: OMA_tube .................................................................... Passed 22.51 dryness
  136/197 Test #964: ORT_ort.data_struct.TestStudyData ..................................... Passed   0.47 dryness
  143/197 Test #971: ORT_ort.engine.aster.TestAsterStudy ..................................... Passed 11.92 dryness
  144/197 Test #972: DHRC_dhrc.studydata.TestStudyData.test01_basic ................. Passed   0.10 dryness
  153/197 Test #981: DHRC_dhrc.engine.post.TestParametersIdentification.test01_basic ................................................................. Passed 20.66 dryness
  154/197 Test #982: SMECA_UTILS_test01 ................................................................ Passed 16.37 dryness
  155/197 Test #983: AC_acseisme.engine.functions.TestFunctions.test01a ................. Passed   6.06 dryness
  165/197 Test #993: AC_acseisme.engine.classes.TestClasses.test_rangee ................. Passed   6.26 dryness
  166/197 Test #994: CABRI ............................................................................ Passed 16.45 dryness
  167/197 Test #995: CT_test0001 ................................................................. Passed 10.70 dryness
  170/197 Test #998: CT_test0004 .................................................................... Passed  9.79 dryness
  172/197 Test #999: CT_test0005 .................................................................... Passed  9.79 dryness
```

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171/197 Test #999: CT_test0005 ............................................................
Passed 8.75 dryness
Start 1000: CT_test0006 ............................................................
Passed 11.97 dryness
Start 1001: CT_test0007 ............................................................
Passed 9.39 dryness
Start 1002: CT_perfe02a ............................................................
*** Failed 10.33 dryness
Start 1003: CT_ssnv108a ............................................................
*** Failed 9.61 dryness
Start 1004: CF_Test01 ............................................................
Passed 27.05 dryness
Start 1005: CF_Test02 ............................................................
Passed 18.29 dryness
Start 1006: MAC3_MONO ............................................................
Passed 10.20 dryness
...
Start 1010: MAC3_N4 ............................................................
182/197 Test #1010: MAC3_N4 ............................................................
Passed 191.35 dryness
Start 1210: ASTER_12.8.0 forma01c ............................................................
Passed 6.73 dryness
...
Start 4154: ASTER_12.8.0_zzzz218a ............................................................
189/197 Test #4154: ASTER_12.8.0_zzzz218a ............................................................
Passed 23.68 dryness
Start 4559: ASTER_13.4.0 forma01c ............................................................
Passed 3.89 dryness
...
Start 7925: ASTER_13.4.0_zzzz401a ............................................................
197/197 Test #7925: ASTER_13.4.0_zzzz401a ............................................................
Passed 2.74 dryness
98% tests passed, 4 tests failed out of 197

Label Time Summary:
ASTER_12.8.0, SMECA_INTEGR = 68.13 dryness
ASTER_13.4.0, SMECA_INTEGR = 76.84 dryness
SMECA = 16.37 dryness
SMECA AC = 132.12 dryness
SMECA CABRI = 16.45 dryness
SMECA CF = 45.33 dryness
SMECA CT = 89.29 dryness
SMECA DHRC, SMECA_INTEGR = 21.77 dryness
SMECA_EDYOS = 297.86 dryness
SMECA_INTEGR = 611.24 dryness
SMECA_MAC3 = 593.49 dryness
SMECA_MT = 4687.32 dryness
SMECA_MT, SMECA_INTEGR = 1208.90 dryness
SMECA_OMA = 37.69 dryness
SMECA ORT = 13.89 dryness
SMECA UTILS = 16.37 dryness

Total Test time (real) = 7383.53 dryness

The following tests FAILED:
942 - MT_MT_sdn1Ba (Failed)
943 - MT_MT_sdn1Bb (Failed)
1002 - CT_perfe02a (Failed)
1003 - CT_ssnv108a (Failed)

Errors while running CTest
4 Skirting for execution without right of writing

During the launching of the tests with Salome test, the results are written in the repertoire appli_XXX/bin/salome/test/.

If the installation is made per package or another reason which makes that one cannot write in the repertoire quoted above, one can apply the following procedure.

In this example, one creates the virtual application in /local00/tmp/appli (to replace the suspension points by the original repertoire of installation):

```
    ... /V2019_calibre_9/create_appli.sh - D - has /local00/tmp/appli
    Cd /local00/tmp/appli
    CP... /application_V2019_calibre_9/env.d/envLocal.cfg env.d/
    ./salome test...
```