

The installation procedure is now identical for SALOME and SALOME-MECA. In the following paragraphs, the environment variable `ROOT_SALOME` (respect the name) designates the main directory of the SALOME (or SALOME-MECA) installation (for instance `/opt/salome_7.2.0/Salome-V7_2_0-LGPL-x86_64` for an installation of the 7.2.0 version under Linux x64).

Installation of EPXDATA-xxx.tar.gz (where xxx designates the version of the module)

The environment variable `EPXDATA_DIR` designates the directory where the EPXDATA module shall be installed. The reference data for the EPX directives are provided by means of the archive `EPX_manual_src_yyyy.tar.gz`, where `yyyy` designates the considered version of EPX.

1. Uncompress *the EPXDATA-xxx.tar.gz* archive in the `$EPXDATA_DIR` directory
2. Uncompress *the EPX_manual_src_yyyy.tar.gz* in the `$EPXDATA_DIR/manual_EPX` directory
3. Create the directory `$EPXDATA_DIR/EPX_BUILD`
4. In the directory `$EPXDATA_DIR/EPX_BUILD`, type the following commands:

```
source $ROOT_SALOME/salome_prerequisite_appli.sh
source $ROOT_SALOME/salome_modules.sh

export EPX_TTX_DOC=$EPXDATA_DIR/manual_EPX
../EPX_SRC/build_configure
../EPX_SRC/configure --prefix=$EPXDATA_DIR/EPX_INSTALL
export EPXDATA_ROOT_DIR=$EPXDATA_DIR/EPX_INSTALL
make install
```

The directories `$EPXDATA_DIR/manual_EPX`, `$EPXDATA_DIR/EPX_SRC` and `$EPXDATA_DIR/EPX_BUILD` can be deleted.

Install EPXDATA_tools to load existing datasets into the EPXDATA module

Download and uncompress the `epxdata_tools_yyyy.tar.gz` for your platform into the directory `$EPXDATA_DIR/TOOLS`, where `yyyy` again designates the considered version of EPX.
Add `$EPXDATA_DIR/TOOLS` to your path :

```
export PATH=$EPXDATA_DIR/TOOLS:$PATH
```

Build an environment file for all the needed variables

The safest way to set all the environment variables required to use the EPXDATA module is the build a file called `env_epxdata.sh` containing the following lines:

```
export ROOT_SALOME='main directory of SALOME installation'
source $ROOT_SALOME/salome_prerequisite_appli.sh
source $ROOT_SALOME/salome_modules.sh

export EPXDATA_DIR='directory where EPXDATA is installed'
export EPX_TTX_DOC=$EPXDATA_DIR/manual_EPX
export EPXDATA_ROOT_DIR=$EPXDATA_DIR/EPX_INSTALL
export PATH=$EPXDATA_DIR/TOOLS:$PATH
```

To set the environment variables, type the following command:

```
source env_epxdata_sh
```

Build an application including the EPXDATA module

To use the EPXDATA module within SALOME, it is required to build an application including the module. This is done through a script *create_appli_v7_x_x.sh*, available in the main directory of the platform. This script reads the configuration file *.config_appli_template.xml* in the same directory to set the modules to include in the newly created application.

One line is thus to be added in the *.config_appli_template.xml* file for the module EPXDATA in the category modules. An example of configuration file is given below, the new line being identified in red color.

```
<application>
  <prerequisites path="{ROOT_SALOME}/salome_prerequisites_appli.sh"/>
  <modules>
    <module name="KERNEL" path="{ROOT_SALOME}/modules/KERNEL_V7_2_0"/>
    <module name="GUI" path="{ROOT_SALOME}/modules/GUI_V7_2_0"/>
    <module name="GEOM" path="{ROOT_SALOME}/modules/GEOM_V7_2_0"/>
    <module name="SMESH" path="{ROOT_SALOME}/modules/SMESH_V7_2_0"/>
    <module name="YACS" path="{ROOT_SALOME}/modules/YACS_V7_2_0"/>
    <module name="PARAVIS" path="{ROOT_SALOME}/modules/PARAVIS_V7_2_0"/>
    <module name="JOBMANAGER" path="{ROOT_SALOME}/modules/JOBMANAGER_V7_2_0"/>
    <module name="HOMARD" path="{ROOT_SALOME}/modules/HOMARD_V7_2_0"/>
    <module name="HEXABLOCK" path="{ROOT_SALOME}/modules/HEXABLOCK_V7_2_0"/>
    <module name="HELLO" path="{ROOT_SALOME}/modules/HELLO1_V7_2_0"/>
    <module name="PYHELLO" path="{ROOT_SALOME}/modules/PYHELLO1_V7_2_0"/>
    <module name="LIGHT" path="{ROOT_SALOME}/modules/LIGHT_V7_2_0"/>
    <module name="PYLIGHT" path="{ROOT_SALOME}/modules/PYLIGHT_V7_2_0"/>
    <module name="HEXABLOCKPLUGIN" path="{ROOT_SALOME}/modules/HEXABLOCKPLUGIN_V7_2_0"/>
    <module name="DSCCODE" path="{ROOT_SALOME}/modules/DSCCODE_V7_2_0"/>
    <module name="BLSURFPLUGIN" path="{ROOT_SALOME}/modules/BLSURFPLUGIN_V7_2_0"/>
    <module name="CALCULATOR" path="{ROOT_SALOME}/modules/CALCULATOR_V7_2_0"/>
    <module name="NETGENPLUGIN" path="{ROOT_SALOME}/modules/NETGENPLUGIN_V7_2_0"/>
    <module name="HexoticPLUGIN" path="{ROOT_SALOME}/modules/HEXOTICPLUGIN_V7_2_0"/>
    <module name="GHS3DPLUGIN" path="{ROOT_SALOME}/modules/GHS3DPLUGIN_V7_2_0"/>
    <module name="MED" path="{ROOT_SALOME}/modules/MED_V7_2_0"/>
    <module name="ATOMIC" path="{ROOT_SALOME}/modules/ATOMIC_V7_2_0"/>
    <module name="ATOMGEN" path="{ROOT_SALOME}/modules/ATOMGEN_V7_2_0"/>
    <module name="ATOMSOLV" path="{ROOT_SALOME}/modules/ATOMSOLV_V7_2_0"/>
    <module name="EPXDATA" gui="yes" path="{EPXDATA_DIR}/EPX_INSTALL"/>
  </modules>
  <samples path="{ROOT_SALOME}/modules/SAMPLES_V7_2_0"/>
</application>
```

The directory containing the new application (APPLI_DIR) is asked by the script *create_appli_v7_x_x.sh* (it can also be entered directly using the *-a* option). Once the application created, the command *\$APPLI_DIR/runAppli* launches an instance of the SALOME platform including the EPXDATA module.