

First check the version of XDATA provided by your SALOME (or SALOME-MECA) installation, using the following procedure.

1. Open a new study in SALOME and go to the python console (use *View* menu if the console is not available)
2. In the console, type the following lines

```
import xdata
print xdata.version
```

If the version is lower than 0.9.7, you need to install the provided version of XDATA and use it instead of the one provided by SALOME in conjunction with the EPXDATA module (unavailable for SALOME-MECA). This replacement may imply side effects with other SALOME modules based on XDATA, which shall be solved by installing a version of SALOME providing the correct version of XDATA if available.

In the following paragraphs, the environment variable SALOME\_DIR designates the main directory of the SALOME (or SALOME-MECA) installation.

#### *Installation of XDATA 0.9.7 (optional)*

The environment variable XDATA\_DIR designates the main directory where XDATA 0.9.7 shall be installed.

1. Uncompress the *XDATA-0.9.7.tar.gz* archive into the directory *\$XDATA\_DIR/xdata-0.9.7-src*
2. Create the directory *\$XDATA\_DIR/xdata-0.9.7-install*
3. In the directory *\$XDATA\_DIR/xdata-0.9.7-src*, type the following commands:

```
source $SALOME_DIR/env_products.sh
configure --prefix=$XDATA_DIR/xdata-0.9.7-install
make
make install
```

#### *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* directory
3. Create the directory *\$EPXDATA\_DIR/EPX\_BUILD*
4. In the directory *\$EPXDATA\_DIR/EPX\_BUILD*, type the following commands:

```
source $SALOME_DIR/env_products.sh (for SALOME)

source $SALOME_DIR/envSalomeMeca.sh (for SALOME-MECA)
```

if the installation of XDATA-0.9.7 is required (see above):

```
export PYTHONPATH=$XDATA_DIR/xdata-0.9.7-
install/lib/python2.6/site-packages/xdata:$PYTHONPATH
```

```

export PATH=$XDATA_DIR/xdata-0.9.7-install/bin:$PATH

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 “epx2xml” tool to load existing datasets into the EPXDATA module*

Download and uncompress the “epx2xml.gz” executable for your platform into the directory `EPX2XML_DIR`.

Add `EPX2XML_DIR` to your path :

```
export PATH=$EPX2XML_DIR:$PATH
```

*Build an environment file for all the needed variables*

The safest 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:

```

source $SALOME_DIR/env_products.sh (for SALOME)

source $SALOME_DIR/envSalomeMeca.sh (for SALOME-MECA)

if the installation of XDATA-0.9.7 is required (see above):
    export XDATA_DIR='directory where XDATA is installed'
    export PYTHONPATH=$XDATA_DIR/xdata-0.9.7-
    install/lib/python2.6/site-packages/xdata:$PYTHONPATH

    export PATH=$XDATA_DIR/xdata-0.9.7-install/bin:$PATH

    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 SALOME_MODULES=GEOM, SMESH, EPXDATA
    export PATH=$EPX2XML_DIR:$PATH

```

To set the environment variables, type the following command:

```
source env_epxdata_sh
```