

# EPICS QT Framework

## 2.0.0

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## Chapter 1

# QE framework - EPICS aware Qt Widgets and data access classes

- QE is a layered software framework for accessing EPICS data using Channel Access on a range of platforms.
- The QE framework provides object oriented C++ access to control systems using EPICS (Experimental Physics and Industrial Control System). It is based on Qt, a widely used cross-platform application development framework.
- GUI or console based applications can be written that use QE at several levels. QE includes Qt plugin libraries, EPICS aware widgets, data formatting classes, and classes for accessing raw EPICS data in a Qt friendly way.
- QE also includes an application - QEgui - for displaying forms produced by the Qt development tool 'Designer'. Using this application a complete EPICS GUI system can be generated without writing any code. A GUI system produced in this way can interact with existing EPICS display tools such as EDM.
- QE handles much of the complexities of Channel Access including initiating and managing a channel. Applications using QE can interact with Channel Access using Qt based classes and data types. Channel Access updates are delivered using Qt's signals and slots mechanism.

### 1.1 Documentation

Support documents can be found in the [documentation](#) section of the epicsqt sourceforge project. The framework download (available on the epicsqt sourceforge [homepage](#)) also includes this documentation as well as full Doxygen generated documentation of all the epicsqt classes and widgets.

## 1.2 License

epicsqt is distributed under the terms of the [GNU General Public License](#).

## 1.3 Platforms

epicsqt might be usable in all environments where you find [Qt](#). It is compatible with Qt  $\geq 4.4$ .

## 1.4 Screenshots

- [ASgui screen shots](#)
- [other applications using epicsqt widgets](#)
- [Qt Designer](#)
- [Qt Creator](#)

Screenshots are only available in the HTML docs.

## 1.5 Downloads

Stable releases and development snapshots are available at the epicsqt [project page](#).

For getting a development snapshot from the SVN repository:

```
svn svn co https://epicsqt.svn.sourceforge.net/svnroot/epicsqt epicsqt
```

## 1.6 Installation

Read [QE\\_GettingStarted.pdf](#) in the documentation for setting up an environment for building or using the epicsqt framework.

To build the framework, open epicsqt.pro in QtCreator, ensure shadow build is turned off, and hit build.

Symbolic links to the resultant library libQEPlugin.so will need to set up according to how it is to be used - see QE\_GettingStarted.pdf for details.

Any Qt specific queries? start at [Qt developer documentation](#)

## 1.7 Support

Visit the sourceforge epicsqt [support page](#) for assistance.

## 1.8 Related Projects

[Qwt](#), The core of a Channel Access aware plotting widget.

## 1.9 Credits:

### Authors:

Andrew Rhyder, Anthony Owen, Glenn Jackson

### Project admin:

Andrew Rhyder <[andrew.rhyder@synchrotron.org.au](mailto:andrew.rhyder@synchrotron.org.au)>



## Chapter 2

# GNU General Public License

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## **Chapter 3**

# **INSTALL**





## Chapter 4

### ASgui screen shots

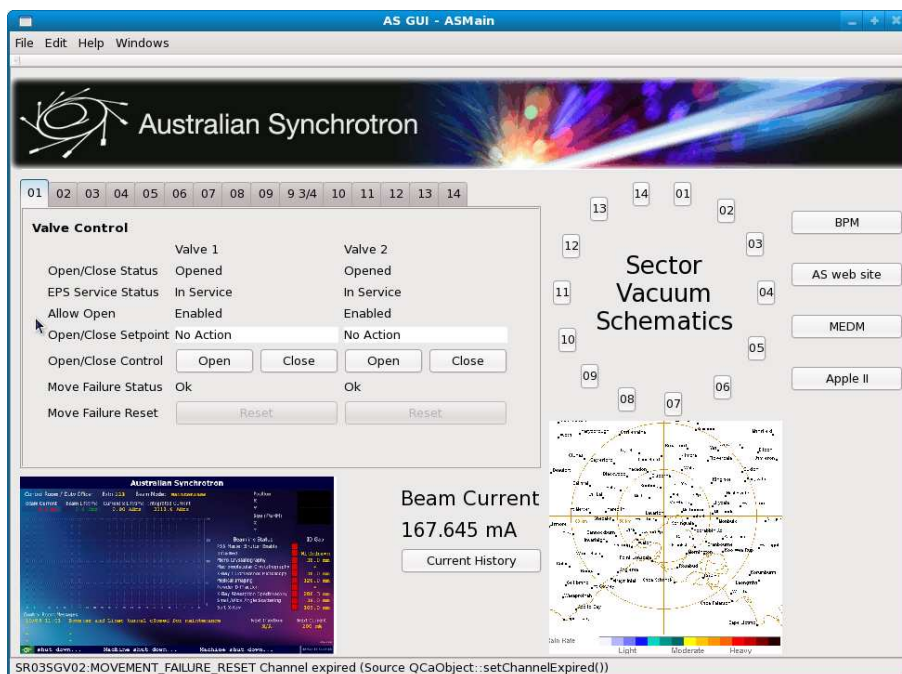


Figure 4.1: Australian Synchrotron mock up

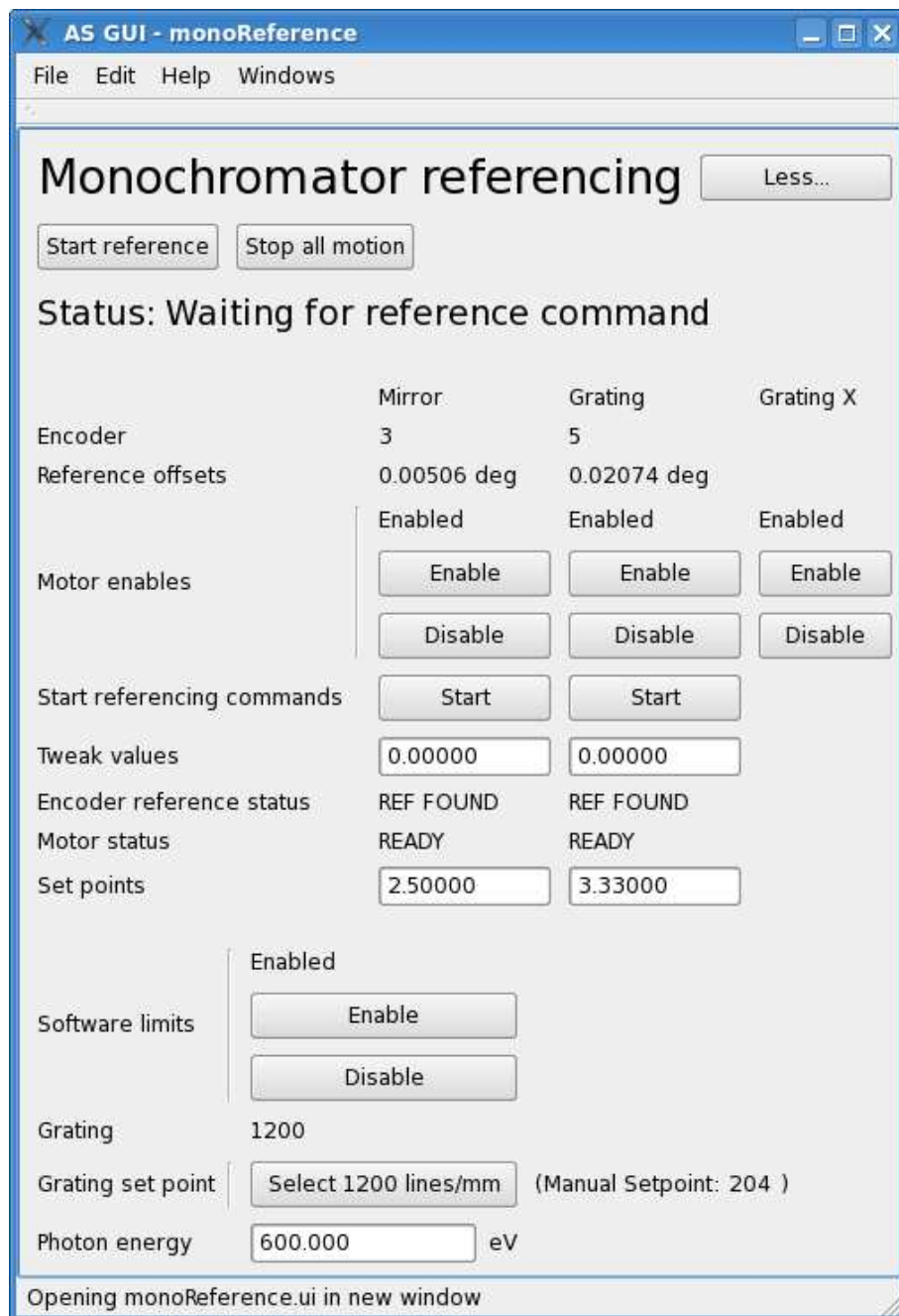


Figure 4.2: Monochromator referencing

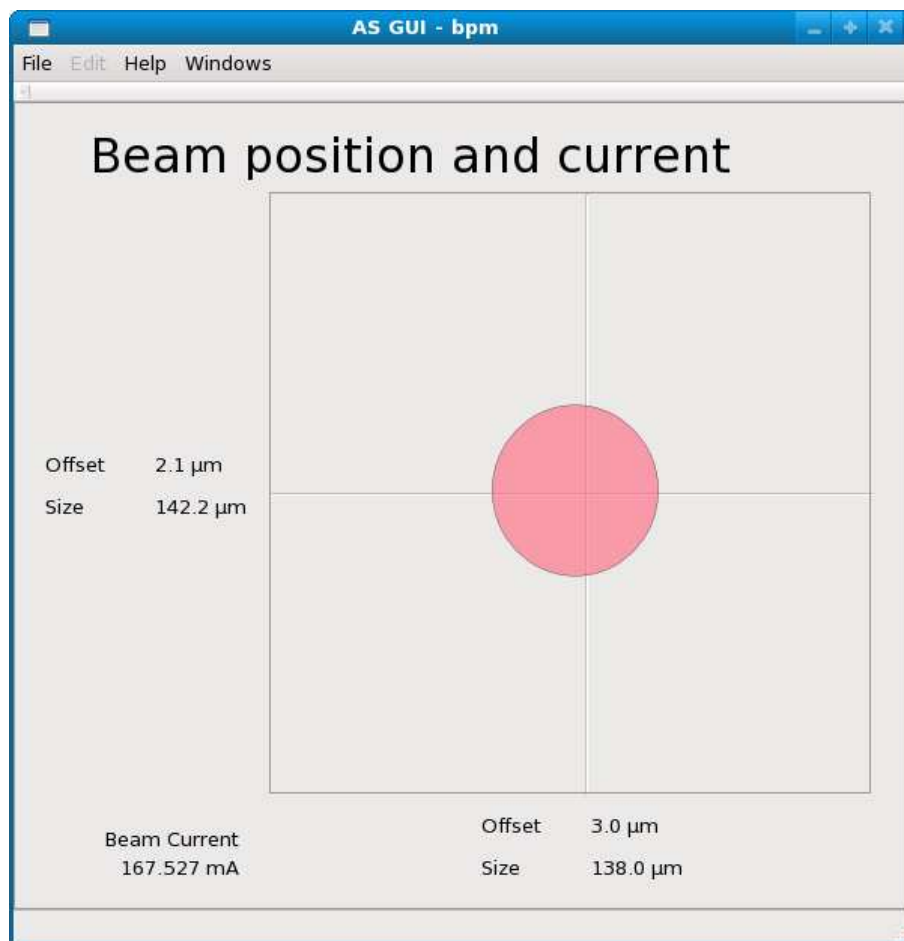


Figure 4.3: Beam position monitor

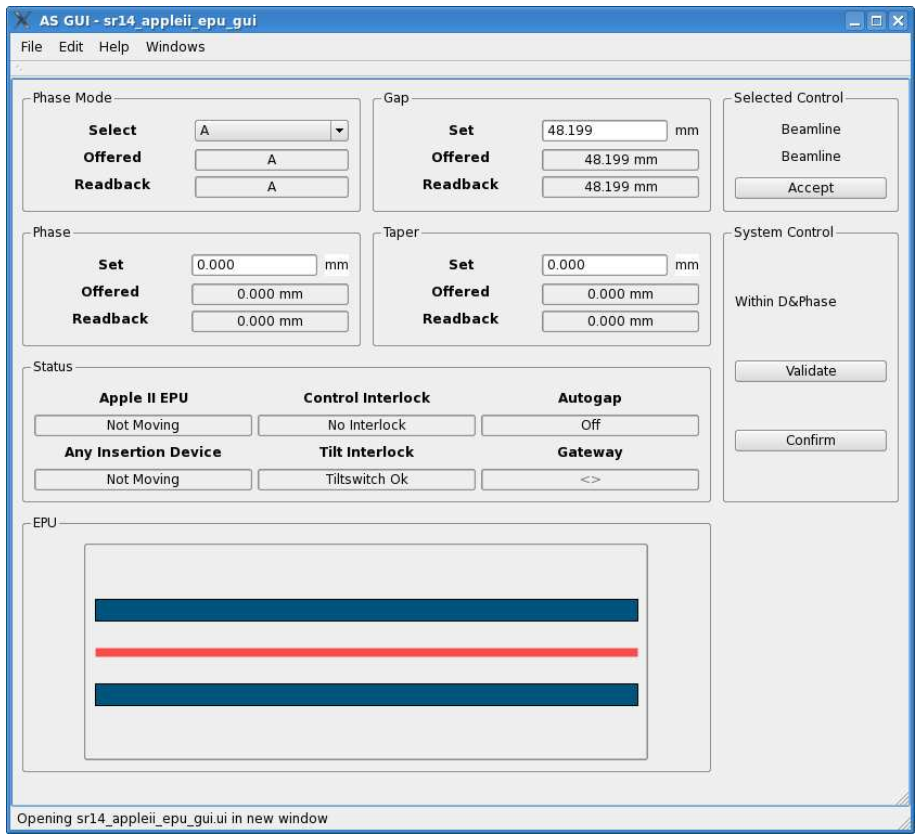


Figure 4.4: Insertion device



Figure 4.5: Injection efficiency monitor



## Chapter 5

# other applications using epicsqt widgets

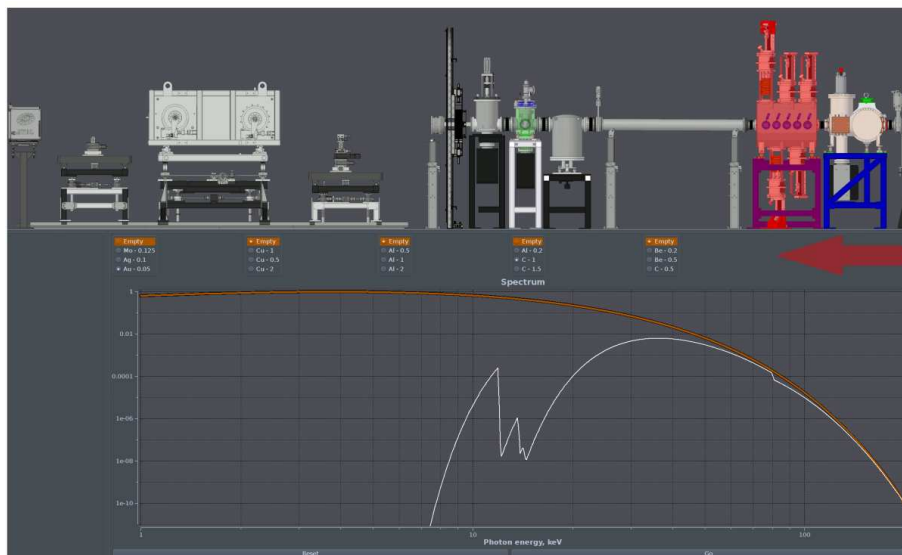


Figure 5.1: Medical Imaging beamline

2B SampleTable Z <@SR08ID01OPI01>

PV name: SR08ID01:MTR32B View mode: Macro

Description: 2B SampleTable Z

Precision: 5 Units: mm

Message: Connection established. clean

User: 6mm Move absolutely Raw: -80932

JOG< UNDO >JOG

LIMIT< Move relatively >LIMIT

< 1mm >

step/10 step/2 step\*2 step\*10

User: 6mm = Hi limit

Resolution: 0.0001mm/step \* 42271.2068mm

Raw: -80932 + Lo Limit

Offset: -2.0932mm -42275.3932mm

Speed Acceleration

Maximum: 1.2mm/s

Normal: 0.8mm/s 1s

Backlash: 0mm/s 1s

log: 1mm/s 10s

Backlash: 0mm

Figure 5.2: Motor controller

MotorMx <@SR08ID01OPI01>

- ▲ ▼	DEI Theta Mono	109.5mm	<	0.1	>	UNDO
- ▲ ▼	DEI Mono Z	-0.3mm	<	0.1	>	UNDO
- ▲ ▼	2B Sample Table Y	0mm	<	1	>	UNDO
- ▲ ▼	2B SampleTable Z	6mm	<	1	>	UNDO
- ▲ ▼	2B Detector Table Z	42mm	<	5	>	UNDO
- ▲ ▼	2B Sample Rotate	-1deg	<	1	>	UNDO
- ▲ ▼	2B Detector Table Y	13.9025mm	<	1	>	UNDO
- ▲ ▼	SETUP	0	<	relative	>	STOP
- ▲ ▼	SLW01:LEFT	9.99975mm	<	3456	>	UNDO

Add motor

Figure 5.3: Motor controller



## Chapter 6

# Qt Designer

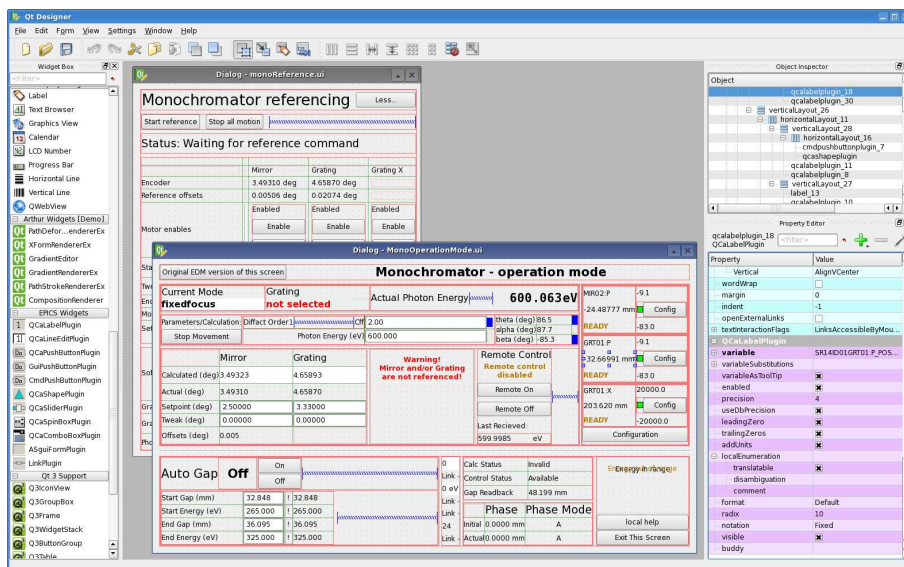


Figure 6.1: Editing multiple GUIs

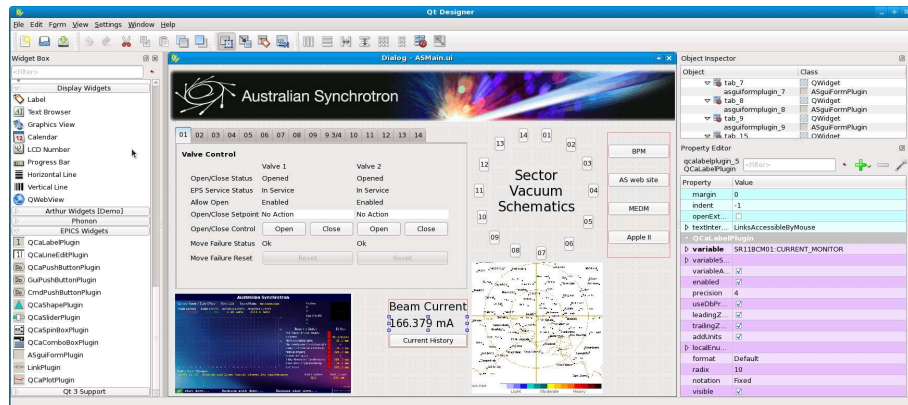


Figure 6.2: Editing a GUI

## Chapter 7

# Qt Creator

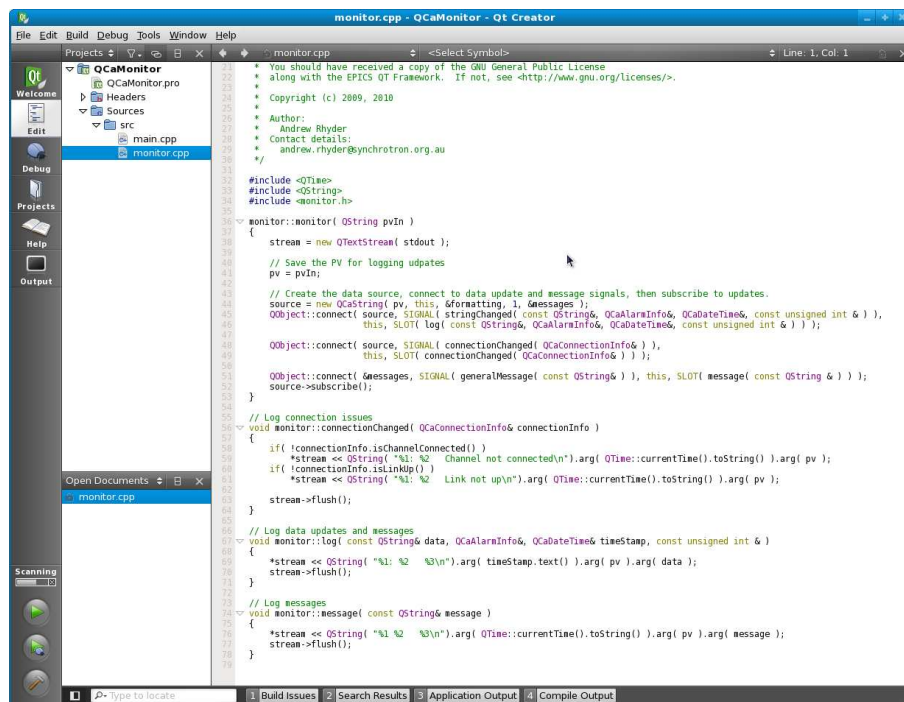


Figure 7.1: Application using epicsqt data source classes



## Chapter 8

# Class Index

### 8.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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_QTableWidgetLog . . . . .	32
_QTableWidgetScript . . . . .	32
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## Chapter 9

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## Chapter 10

# Class Documentation

### 10.1 \_Field Class Reference

#### Public Member Functions

- [QCaWidget](#) \* **getWidget** ()
- void **setWidget** (QString \*pValue)
- QString **getName** ()
- void **setName** (QString pValue)
- QString **getProcessVariable** ()
- void **setProcessVariable** (QString pValue)
- void **setJoin** (bool pValue)
- bool **getJoin** ()
- int **getType** ()
- void **setType** (int pValue)
- QString **getGroup** ()
- void **setGroup** (QString pValue)
- QString **getVisible** ()
- void **setVisible** (QString pValue)
- QString **getEditable** ()
- void **setEditable** (QString pValue)
- bool **getVisibility** ()
- void **setVisibility** (bool pValue)

#### Public Attributes

- [QCaWidget](#) \* **qCaWidget**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.h
- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.cpp

## 10.2 `_Item` Class Reference

### Public Member Functions

- void **setName** (QString pValue)
- QString **getName** ()
- void **setSubstitution** (QString pValue)
- QString **getSubstitution** ()
- void **setVisible** (QString pValue)
- QString **getVisible** ()

### Public Attributes

- QList< [\\_Field](#) \* > **fieldList**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.h
- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.cpp

## 10.3 `_QDialogItem` Class Reference

### Public Member Functions

- **\_QDialogItem** (QWidget \*pParent=0, QString pItemName="", QString pGroupName="", QList< [\\_Field](#) \* > \*pCurrentFieldList=0, Qt::WindowFlags pF=0)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.h
- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.cpp

## 10.4 `_QDialogLogin` Class Reference

### Public Member Functions

- **\_QDialogLogin** (QWidget \*pParent=0, int pUserType=-1, Qt::WindowFlags pF=0)
- void **setCurrentUserType** (int pValue)
- void **setPassword** (QString pValue)

**Protected Attributes**

- QGridLayout \* **qGridLayout**
- QVBoxLayout \* **qVBoxLayout**
- QGroupBox \* **qGroupBox**
- QRadioButton \* **qRadioButtonUser**
- QRadioButton \* **qRadioButtonScientist**
- QRadioButton \* **qRadioButtonEngineer**
- QLabel \* **qLabelType**
- QLineEdit \* **qLineEditPassword**
- QPushButton \* **qPushButtonOk**
- QPushButton \* **qPushButtonCancel**
- int **userType**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELogin/QELogin.h
- /home/rhydera/epicsqt/framework/widgets/QELogin/QELogin.cpp

**10.5 \_QPushButtonGroup Class Reference****Public Slots**

- void **buttonGroupClicked** ()

**Public Member Functions**

- **\_QPushButtonGroup** (QWidget \*pParent=0, QString pItemName="", QString pGroupName="", QList< [\\_Field](#) \* > \*pCurrentFieldList=0)
- void **mouseReleaseEvent** (QMouseEvent \*qMouseEvent)
- void **keyPressEvent** (QKeyEvent \*pKeyEvent)
- void **showDialogGroup** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.h
- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.cpp

**10.6 \_QTableWidgetFileBrowser Class Reference****Public Member Functions**

- **\_QTableWidgetFileBrowser** (QWidget \*pParent=0)

- void **refreshSize** ()
- void **resizeEvent** (QResizeEvent \*)
- void **resize** (int w, int h)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QFileBrowser/QFileBrowser.h
- /home/rhydera/epicsqt/framework/widgets/QFileBrowser/QFileBrowser.cpp

## 10.7 \_QTableWidgetLog Class Reference

### Public Member Functions

- **\_QTableWidgetLog** (QWidget \*pParent=0)
- void **refreshSize** ()
- void **resizeEvent** (QResizeEvent \*)
- void **resize** (int w, int h)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELog/QELog.h
- /home/rhydera/epicsqt/framework/widgets/QELog/QELog.cpp

## 10.8 \_QTableWidgetScript Class Reference

### Public Member Functions

- **\_QTableWidgetScript** (QWidget \*pParent=0)
- void **refreshSize** ()
- void **resizeEvent** (QResizeEvent \*)
- void **resize** (int w, int h)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEScript/QEScript.h
- /home/rhydera/epicsqt/framework/widgets/QEScript/QEScript.cpp

## 10.9 QEAnalogIndicator::Band Struct Reference

### Public Attributes

- double **lower**



- double **upper**
- QColor **colour**

The documentation for this struct was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicator.h

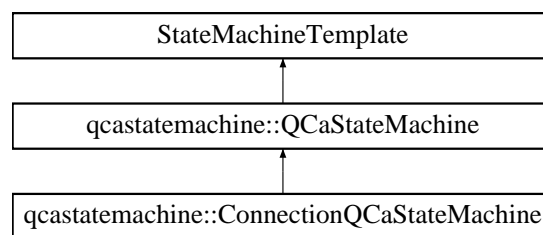
## 10.10 QEAnalogIndicator::BandList Class Reference

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicator.h

## 10.11 qcastatemachine::ConnectionQCaStateMachine Class Reference

Inheritance diagram for qcastatemachine::ConnectionQCaStateMachine:



### Public Member Functions

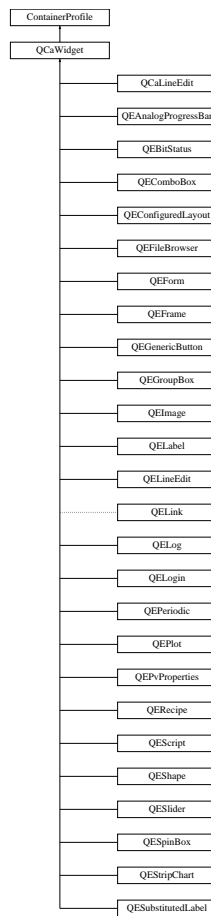
- **ConnectionQCaStateMachine** (void \*parent)
- bool **process** (int requestedState)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaStateMachine.h
- /home/rhydera/epicsqt/framework/data/src/QCaStateMachine.cpp

## 10.12 ContainerProfile Class Reference

Inheritance diagram for ContainerProfile:



## Public Member Functions

- void **takeLocalCopy** ()
- void **setupProfile** (QObject \*guiLaunchConsumerIn, QString pathIn, QString parentPathIn, QString macroSubstitutionsIn)
- void **setupLocalProfile** (QObject \*guiLaunchConsumerIn, QString pathIn, QString parentPathIn, QString macroSubstitutionsIn)
- void **updateConsumers** (QObject \*guiLaunchConsumerIn)
- QObject \* **replaceGuiLaunchConsumer** (QObject \*newGuiLaunchConsumerIn)
- void **addMacroSubstitutions** (QString macroSubstitutionsIn)
- void **removeMacroSubstitutions** ()
- QObject \* **getGuiLaunchConsumer** ()
- QString **getPath** ()
- QString **getParentPath** ()
- void **setPublishedParentPath** (QString publishedParentPathIn)
- QString **getMacroSubstitutions** ()
- bool **isProfileDefined** ()

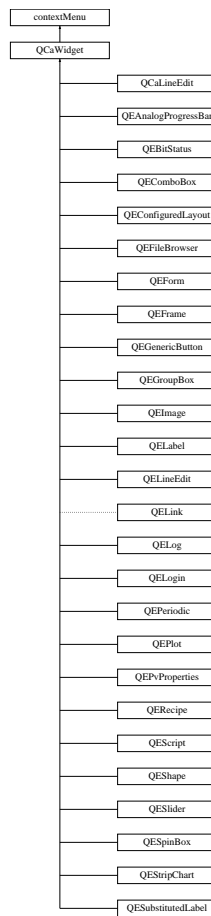
- void **addContainedWidget** (QCaWidget \*containedWidget)
- QCaWidget \* **getNextContainedWidget** ()
- void **removeContainedWidget** (QCaWidget \*containedWidget)
- unsigned int **getMessageFormId** ()
- unsigned int **getPublishedMessageFormId** ()
- void **setPublishedMessageFormId** (unsigned int publishedMessageFormIdIn)
- void **releaseProfile** ()
- void **publishOwnProfile** ()
- void **setUserLevel** (userLevels level)
- userLevels **getUserLevel** ()
- virtual void **userLevelChanged** (userLevels)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/ContainerProfile.h
- /home/rhydera/epicsqt/framework/widgets/src/ContainerProfile.cpp

## 10.13 contextMenu Class Reference

Inheritance diagram for contextMenu:



## Public Types

- enum **contextMenuOptions** {  
**CM\_NONE, CM\_COPY\_VARIABLE, CM\_COPY\_DATA, CM\_PASTE,**  
**CM\_DRAG\_VARIABLE, CM\_DRAG\_DATA, CM\_SPECIFIC\_WIDGETS\_START\_**  
**HERE, CM\_NONE,**  
**CM\_COPY\_VARIABLE, CM\_COPY\_DATA, CM\_PASTE, CM\_DRAG\_VARIABLE,**  
**CM\_DRAG\_DATA, CM\_SPECIFIC\_WIDGETS\_START\_HERE }**
- enum **contextMenuOptions** {  
**CM\_NONE, CM\_COPY\_VARIABLE, CM\_COPY\_DATA, CM\_PASTE,**  
**CM\_DRAG\_VARIABLE, CM\_DRAG\_DATA, CM\_SPECIFIC\_WIDGETS\_START\_**  
**HERE, CM\_NONE,**  
**CM\_COPY\_VARIABLE, CM\_COPY\_DATA, CM\_PASTE, CM\_DRAG\_VARIABLE,**  
**CM\_DRAG\_DATA, CM\_SPECIFIC\_WIDGETS\_START\_HERE }**

### Public Member Functions

- void **addContextMenuToWidget** (QWidget \*w)
- bool **isDraggingVariable** ()
- QMenu \* **getContextMenu** ()
- virtual QString **copyVariable** ()
- virtual QVariant **copyData** ()
- virtual void **paste** (QVariant)
- void **addContextMenuToWidget** (QWidget \*w)
- bool **isDraggingVariable** ()
- QMenu \* **getContextMenu** ()
- virtual QString **copyVariable** ()
- virtual QVariant **copyData** ()
- virtual void **paste** (QVariant)

### Friends

- class [contextMenuObject](#)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/contextMenu.h
- /home/rhydera/epicsqt/framework/widgets/src/contextMenu.h
- /home/rhydera/epicsqt/framework/widgets/src/contextMenu.cpp

## 10.14 contextMenuObject Class Reference

### Public Slots

- void **contextMenuTriggered** (QAction \*selectedItem)
- void **showContextMenu** (const QPoint &pos)
- void **setChecked** ()
- void **contextMenuTriggered** (QAction \*selectedItem)
- void **showContextMenu** (const QPoint &pos)
- void **setChecked** ()

### Public Member Functions

- [contextMenuObject](#) ()
- void **addContextMenuToWidget** (QWidget \*w)
- void **manageChecked** (bool draggingVariable)
- void **setMenu** ([contextMenu](#) \*menuIn)
- bool **isDraggingVariable** ()
- void **addContextMenuToWidget** (QWidget \*w)
- void **manageChecked** (bool draggingVariable)
- void **setMenu** ([contextMenu](#) \*menuIn)
- bool **isDraggingVariable** ()

## 10.14.1 Constructor & Destructor Documentation

### 10.14.1.1 contextMenuObject::contextMenuObject ( )

! Should all menus be able to share the same actions???

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/contextMenu.h
- /home/rhydera/epicsqt/framework/widgets/src/contextMenu.h
- /home/rhydera/epicsqt/framework/widgets/src/contextMenu.cpp

## 10.15 QEPeriodic::elementInfoStruct Struct Reference

### Public Attributes

- unsigned int **number**
- double **atomicWeight**
- QString **name**
- QString **symbol**
- double **meltingPoint**
- double **boilingPoint**
- double **density**
- unsigned int **group**
- double **ionizationEnergy**
- unsigned int **tableRow**
- unsigned int **tableCol**

The documentation for this struct was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodic.h

## 10.16 flipRotateMenu Class Reference

### Public Member Functions

- **flipRotateMenu** (QWidget \*parent=0)
- imageContextMenu::imageContextMenuOptions [getFlipRotate](#) (const QPoint &pos)
- void **setChecked** (const int rotation, const bool flipH, const bool flipV)

### 10.16.1 Member Function Documentation

#### 10.16.1.1 imageContextMenu::imageContextMenuOptions flipRotateMenu::getFlipRotate ( const QPoint & pos )

! Doesn't return flipped state

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/flipRotateMenu.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/flipRotateMenu.cpp

## 10.17 imageContextMenu Class Reference

### Public Types

- enum **imageContextMenuOptions** {  
**ICM\_NONE** = contextMenu::CM\_SPECIFIC\_WIDGETS\_START\_HERE, **ICM\_SAVE**,  
**ICM\_PAUSE**, **ICM\_ENABLE\_TIME**,  
**ICM\_ENABLE\_CURSOR\_PIXEL**, **ICM\_ENABLE\_CONTRAST\_REVERSAL**, **ICM\_-**  
**ENABLE\_PAN**, **ICM\_ENABLE\_VERT**,  
**ICM\_ENABLE\_HOZ**, **ICM\_ENABLE\_AREA**, **ICM\_ENABLE\_LINE**, **ICM\_ENABLE\_-**  
**TARGET**,  
**ICM\_DISPLAY\_BUTTON\_BAR**, **ICM\_ZOOM\_SELECTED**, **ICM\_ZOOM\_FIT**, **ICM\_-**  
**ZOOM\_10**,  
**ICM\_ZOOM\_25**, **ICM\_ZOOM\_50**, **ICM\_ZOOM\_75**, **ICM\_ZOOM\_100**,  
**ICM\_ZOOM\_150**, **ICM\_ZOOM\_200**, **ICM\_ZOOM\_300**, **ICM\_ZOOM\_400**,  
**ICM\_ROTATE\_NONE**, **ICM\_ROTATE\_RIGHT**, **ICM\_ROTATE\_LEFT**, **ICM\_ROTATE\_-**  
**180**,  
**ICM\_FLIP\_HORIZONTAL**, **ICM\_FLIP\_VERTICAL**, **ICM\_SELECT\_PAN**, **ICM\_-**  
**SELECT\_HSLICE**,  
**ICM\_SELECT\_VSLICE**, **ICM\_SELECT\_AREA**, **ICM\_SELECT\_PROFILE**, **ICM\_-**  
**SELECT\_TARGET**,  
**ICM\_SELECT\_BEAM** }

### Public Member Functions

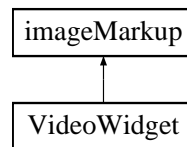
- **imageContextMenu** (QWidget \*parent=0)
- void **getContextMenuOption** (const QPoint &, imageContextMenuOptions \*option, bool \*checked)
- void **addItem** (const QString &title, const bool checkable, const bool checked, const imageContextMenuOptions option)
- void **addOptionMenuItem** (const QString &title, const bool checkable, const bool checked, const imageContextMenuOptions option)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageContextMenu.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageContextMenu.cpp

## 10.18 imageMarkup Class Reference

Inheritance diagram for imageMarkup:



### Public Types

- enum **markupIds** {  
**MARKUP\_ID\_REGION**, **MARKUP\_ID\_H\_SLICE**, **MARKUP\_ID\_V\_SLICE**, **MARKUP\_ID\_LINE**,  
**MARKUP\_ID\_TARGET**, **MARKUP\_ID\_BEAM**, **MARKUP\_ID\_TIMESTAMP**, **MARKUP\_ID\_COUNT**,  
**MARKUP\_ID\_NONE** }

### Public Member Functions

- void **markupMouseEvent** (QMouseEvent \*event)
- void **markupMouseReleaseEvent** (QMouseEvent \*event)
- void **markupMouseMoveEvent** (QMouseEvent \*event)
- void **setShowTime** (bool visibleIn)
- bool **getShowTime** ()
- markupIds **getMode** ()
- void **setMode** (markupIds modeIn)
- QVector< QRect > & **getMarkupAreas** ()
- bool **anyVisibleMarkups** ()
- QCursor **getDefaultMarkupCursor** ()
- void **setMarkupTime** (QCaDateTime &time)
- void **setMarkupColor** (markupIds mode, QColor markupColorIn)
- QColor **getMarkupColor** (markupIds mode)
- QCursor **getCircleCursor** ()
- QCursor **getTargetCursor** ()
- virtual void **markupSetCursor** (QCursor cursor)=0



### Public Attributes

- QImage \* **markupImage**
- QVector< [markupItem](#) \* > **items**
- QPoint **grabOffset**
- bool **markupAreasStale**

### Protected Member Functions

- void **markupResize** (QSize newSize)
- virtual void **markupChange** (QImage &markups, QVector< QRect > &changedAreas)=0
- virtual void **markupAction** (markupIds mode, QPoint point1, QPoint point2)=0

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.cpp

## 10.19 localEnumerationItem Class Reference

### Public Types

- enum **operations** {  
**LESS, LESS\_EQUAL, EQUAL, NOT\_EQUAL,**  
**GREATER\_EQUAL, GREATER, ALWAYS, UNKNOWN }**

### Public Attributes

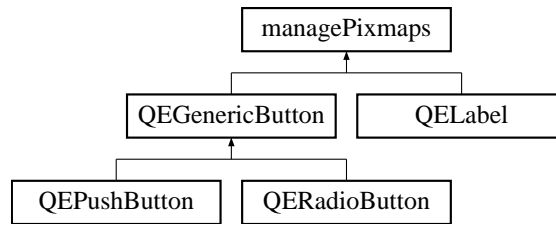
- double **dValue**
- QString **sValue**
- operations **op**
- QString **text**

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/data/include/QCaStringFormatting.h

## 10.20 managePixmaps Class Reference

Inheritance diagram for managePixmaps:



### Public Member Functions

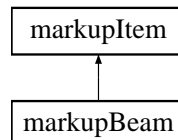
- void **setDataPixmap** (const QPixmap &Pixmap, const unsigned int index)
- QPixmap **getDataPixmap** (const unsigned int index)
- QPixmap **getDataPixmap** (const QString value)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/managePixmaps.h
- /home/rhydera/epicsqt/framework/widgets/src/managePixmaps.cpp

## 10.21 markupBeam Class Reference

Inheritance diagram for markupBeam:



### Public Member Functions

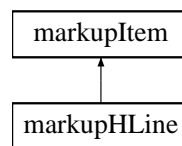
- **markupBeam** ([imageMarkup](#) \*ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor \*cursor)
- QPoint **origin** ()
- QPoint **getPoint1** ()
- QPoint **getPoint2** ()
- QCursor **defaultCursor** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.cpp

## 10.22 markupHLine Class Reference

Inheritance diagram for markupHLine:



### Public Member Functions

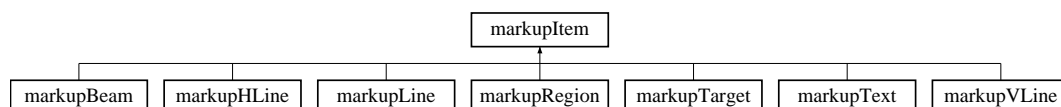
- **markupHLine** ([imageMarkup](#) \*ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor \*cursor)
- QPoint **origin** ()
- QPoint **getPoint1** ()
- QPoint **getPoint2** ()
- QCursor **defaultCursor** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.cpp

## 10.23 markupItem Class Reference

Inheritance diagram for markupItem:



## Public Types

- enum **isOverOptions** { OVER\_LINE, OVER\_BORDER, OVER\_AREA }
- enum **markupHandles** {  
**MARKUP\_HANDLE\_NONE**, **MARKUP\_HANDLE\_START**, **MARKUP\_HANDLE\_-**  
**END**, **MARKUP\_HANDLE\_TL**,  
**MARKUP\_HANDLE\_TR**, **MARKUP\_HANDLE\_BL**, **MARKUP\_HANDLE\_BR**, **MARKUP\_-**  
**HANDLE\_T**,  
**MARKUP\_HANDLE\_B**, **MARKUP\_HANDLE\_L**, **MARKUP\_HANDLE\_R** }

## Public Member Functions

- **markupItem** ([imageMarkup](#) \*ownerIn, isOverOptions over, bool interactiveIn, bool reportOnMoveIn)
- virtual void **setArea** ()=0
- virtual QPoint **origin** ()=0
- virtual void **moveTo** (QPoint pos)=0
- void **erase** ()
- virtual void **drawMarkup** (QPainter &p)=0
- virtual void **startDrawing** (QPoint pos)=0
- virtual bool **isOver** (QPoint point, QCursor \*cursor)=0
- virtual QPoint **getPoint1** ()=0
- virtual QPoint **getPoint2** ()=0
- virtual QCursor **defaultCursor** ()=0
- bool **pointIsNear** (QPoint p1, QPoint p)
- void **drawMarkupIn** ()
- void **drawMarkupOut** ()
- void **setColor** (QColor colorIn)
- QColor **getColor** ()

## Public Attributes

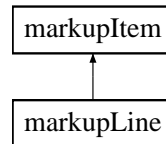
- markupHandles **activeHandle**
- isOverOptions **isOverType**
- QRect **area**
- bool **visible**
- bool **interactive**
- bool **reportOnMove**
- bool **highlighted**
- int **highlightMargin**
- QColor **color**
- [imageMarkup](#) \* **owner**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.cpp

## 10.24 markupLine Class Reference

Inheritance diagram for markupLine:



### Public Member Functions

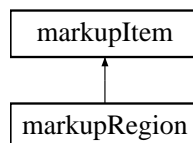
- **markupLine** ([imageMarkup](#) \*ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor \*cursor)
- QPoint **origin** ()
- QPoint **getPoint1** ()
- QPoint **getPoint2** ()
- QCursor **defaultCursor** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.cpp

## 10.25 markupRegion Class Reference

Inheritance diagram for markupRegion:



### Public Member Functions

- **markupRegion** ([imageMarkup](#) \*ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **startDrawing** (QPoint pos)

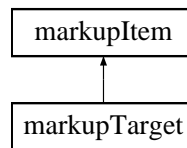
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor \*cursor)
- QPoint **origin** ()
- QPoint **getPoint1** ()
- QPoint **getPoint2** ()
- QCursor **defaultCursor** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.cpp

## 10.26 markupTarget Class Reference

Inheritance diagram for markupTarget:



### Public Member Functions

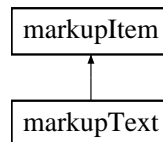
- **markupTarget** ([imageMarkup](#) \*ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor \*cursor)
- QPoint **origin** ()
- QPoint **getPoint1** ()
- QPoint **getPoint2** ()
- QCursor **defaultCursor** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.cpp

## 10.27 markupText Class Reference

Inheritance diagram for markupText:



### Public Member Functions

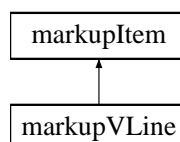
- **markupText** ([imageMarkup](#) \*ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **setText** (QString textIn, bool draw)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor \*cursor)
- QPoint **origin** ()
- QPoint **getPoint1** ()
- QPoint **getPoint2** ()
- QCursor **defaultCursor** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.cpp

## 10.28 markupVLine Class Reference

Inheritance diagram for markupVLine:



### Public Member Functions

- **markupVLine** ([imageMarkup](#) \*ownerIn, bool interactiveIn, bool reportOnMoveIn)

- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor \*cursor)
- QPoint **origin** ()
- QPoint **getPoint1** ()
- QPoint **getPoint2** ()
- QCursor **defaultCursor** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/imageMarkup.cpp

## 10.29 PeriodicDialog Class Reference

### Public Member Functions

- **PeriodicDialog** (QWidget \*parent=0)
- QString **getElement** ()
- void **setElement** (QString elementIn, QList< bool > &enabledList, QList< QString > &elementList)

### Protected Member Functions

- void **changeEvent** (QEvent \*e)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/PeriodicDialog.h
- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/PeriodicDialog.cpp

## 10.30 PeriodicElementSetupForm Class Reference

### Public Member Functions

- **PeriodicElementSetupForm** (QWidget \*parent=0)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/PeriodicElementSetupForm.h
- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/PeriodicElementSetupForm.cpp



## 10.31 PeriodicSetupDialog Class Reference

### Public Member Functions

- **PeriodicSetupDialog** (QWidget \*parent=0)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/PeriodicSetupDialog.h
- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/PeriodicSetupDialog.cpp

## 10.32 QEStripChart::PrivateData Class Reference

### Public Member Functions

- **PrivateData** (QEStripChart \*chartIn)
- QEStripChartItem \* **getItem** (unsigned int slot)
- QwtPlotCurve \* **allocateCurve** ()
- void **calcDisplayMinMax** ()
- void **plotData** ()
- void **setReadOut** (QString text)

### Public Attributes

- enum ChartYScale **chartYScale**
- enum ChartTimeMode **chartTimeMode**

### Protected Member Functions

- bool **eventFilter** (QObject \*obj, QEvent \*event)

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChart.cpp

## 10.33 QEStripChartItem::PrivateData Class Reference

### Public Attributes

- QEStripChart \* **chart**
- QLabel \* **pvName**
- QELabel \* **caLabel**

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartItem.cpp

## 10.34 profilePlot Class Reference

### Public Member Functions

- **profilePlot** (QWidget \*parent=0)
- void **setScale** (int scaleIn)
- void **setProfile** (QVector< QPointF > &profile, double minX, double maxX, double minY, double maxY)
- void **setCursor** (int cursorIn)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/profilePlot.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/profilePlot.cpp

## 10.35 PushButtonSpecifications Struct Reference

### Public Attributes

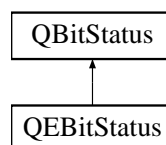
- int **width**
- const QString **caption**
- const QString **iconName**
- const QString **toolTip**
- const char \* **member**

The documentation for this struct was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChart.cpp

## 10.36 QBitStatus Class Reference

Inheritance diagram for QBitStatus:



## Public Types

- enum **Orientations** { **LSB\_On\_Right**, **LSB\_On\_Bottom**, **LSB\_On\_Left**, **LSB\_On\_Top** }
- enum **Shapes** { **Rectangle**, **Circle** }

## Public Slots

- void **setValue** (const int value)

## Public Member Functions

- **QBitStatus** (QWidget \*parent=0)
- virtual QSize **sizeHint** () const
- void **setBorderColour** (const QColor value)
- QColor **getBorderColour** ()
- void **setOnColour** (const QColor value)
- QColor **getOnColour** ()
- void **setOffColour** (const QColor value)
- QColor **getOffColour** ()
- void **setInvalidColour** (const QColor value)
- QColor **getInvalidColour** ()
- void **setClearColour** (const QColor value)
- QColor **getClearColour** ()
- void **setDrawBorder** (const bool value)
- bool **getDrawBorder** ()
- void **setNumberOfBits** (const int value)
- int **getNumberOfBits** ()
- void **setGap** (const int value)
- int **getGap** ()
- void **setShift** (const int value)
- int **getShift** ()
- void **setOnClearMask** (const QString value)
- QString **getOnClearMask** ()
- void **setOffClearMask** (const QString value)
- QString **getOffClearMask** ()
- void **setReversePolarityMask** (const QString value)
- QString **getReversePolarityMask** ()
- void **setIsValid** (const bool value)
- bool **getIsValid** ()
- void **setOrientation** (const enum Orientations value)
- enum Orientations **getOrientation** ()
- void **setShape** (const enum Shapes value)
- enum Shapes **getShape** ()
- int **getValue** ()

### Properties

- int **value**
- int **numberOfBits**
- int **shift**
- Orientations **Orientation**
- Shapes **shape**
- int **gap**
- QString **reversePolarityMask**
- QString **onClearMask**
- QString **offClearMask**
- QColor **boarderColour**
- QColor **invalidColour**
- QColor **onColour**
- QColor **offColour**
- QColor **clearColour**
- bool **drawBorder**
- bool **isValid**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEBitStatus/QBitStatus.h
- /home/rhydera/epicsqt/framework/widgets/QEBitStatus/QBitStatus.cpp

## 10.37 QBitStatusManager Class Reference

### Public Member Functions

- **QBitStatusManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEBitStatus/QBitStatusManager.h
- /home/rhydera/epicsqt/framework/widgets/QEBitStatus/QBitStatusManager.cpp

## 10.38 QCaAlarmInfo Class Reference

### Public Member Functions

- **QCaAlarmInfo** (unsigned short statusIn, unsigned short severityIn)
- QString **statusName** ()
- QString **severityName** ()
- bool **isInAlarm** ()
- bool **isMinor** ()
- bool **isMajor** ()
- bool **isInvalid** ()
- QString **style** ()
- QString **getColorName** ()
- QCAALARMINFO\_SEVERITY **getSeverity** ()

### Static Public Member Functions

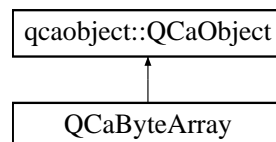
- static QCAALARMINFO\_SEVERITY **getInvalidSeverity** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaAlarmInfo.h
- /home/rhydera/epicsqt/framework/data/src/QCaAlarmInfo.cpp

## 10.39 QCaByteArray Class Reference

Inheritance diagram for QCaByteArray:



### Public Slots

- void **writeByteArray** (const QByteArray &data)

### Signals

- void **byteArrayConnectionChanged** ([QCaConnectionInfo](#) &connectionInfo, const unsigned int &variableIndex)
- void **byteArrayChanged** (const QByteArray &value, unsigned long dataSize, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &timeStamp, const unsigned int &variableIndex)

### Public Member Functions

- **QCaByteArray** (QString recordName, QObject \*eventObject, unsigned int variableIndexIn)
- **QCaByteArray** (QString recordName, QObject \*eventObject, unsigned int variableIndexIn, [UserMessage](#) \*userMessageIn)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaByteArray.h
- /home/rhydera/epicsqt/framework/data/src/QCaByteArray.cpp

## 10.40 QCaConnectionInfo Class Reference

### Public Member Functions

- **QCaConnectionInfo** (unsigned short channelStateIn, unsigned short linkStateIn)
- bool **isChannelConnected** ()
- bool **isLinkUp** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaConnectionInfo.h
- /home/rhydera/epicsqt/framework/data/src/QCaConnectionInfo.cpp

## 10.41 QCaDataPoint Struct Reference

### Public Attributes

- double **value**
- [QCaDateTime](#) **datetime**
- [QCaAlarmInfo](#) **alarm**

The documentation for this struct was generated from the following file:

- /home/rhydera/epicsqt/framework/data/include/QCaDataPoint.h

## 10.42 QCaDataPointList Class Reference

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/data/include/QCaDataPoint.h

## 10.43 QCaDateTime Class Reference

### Public Member Functions

- **QCaDateTime** (QDateTime dt)
- void **operator=** (const [QCaDateTime](#) &other)
- **QCaDateTime** (unsigned long seconds, unsigned long nanoseconds)
- QString **text** ()
- double **floating** (QDateTime base)

### Public Attributes

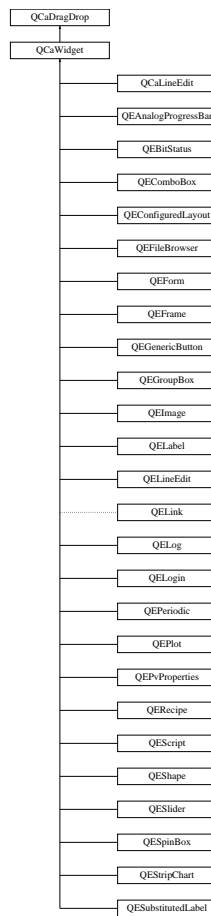
- unsigned long **nSec**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaDateTime.h
- /home/rhydera/epicsqt/framework/data/src/QCaDateTime.cpp

## 10.44 QCaDragDrop Class Reference

Inheritance diagram for QCaDragDrop:



## Public Member Functions

- **QCaDragDrop** (QWidget \*ownerIn)

## Protected Member Functions

- void **qcaDragEnterEvent** (QDragEnterEvent \*event)
- void **qcaDropEvent** (QDropEvent \*event)
- void **qcaMousePressEvent** (QMouseEvent \*event)
- virtual void **setDrop** (QVariant)
- virtual QVariant **getDrop** ()
- void **setAllowDrop** (bool allowDropIn)
- bool **getAllowDrop** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/QCaDragDrop.h
- /home/rhydera/epicsqt/framework/widgets/src/QCaDragDrop.cpp



## 10.45 QCaEventFilter Class Reference

### Public Member Functions

- void **addFilter** (QObject \*objectIn)
- void **deleteFilter** (QObject \*objectIn)
- bool **eventFilter** (QObject \*watched, QEvent \*e)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaEventFilter.h
- /home/rhydera/epicsqt/framework/data/src/QCaEventFilter.cpp

## 10.46 QCaEventItem Class Reference

### Public Member Functions

- **QCaEventItem** ([QCaEventUpdate](#) \*newEvent)

### Public Attributes

- [QCaEventUpdate](#) \* **event**

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/data/include/QCaEventUpdate.h

## 10.47 QCaEventUpdate Class Reference

### Public Member Functions

- **QCaEventUpdate** ([qcaobject::QCaObject](#) \*emitterObjectIn, long newReason, void \*newDataPtr)

### Public Attributes

- bool **acceptThisEvent**
- [qcaobject::QCaObject](#) \* **emitterObject**
- long **reason**
- void \* **dataPtr**

### Static Public Attributes

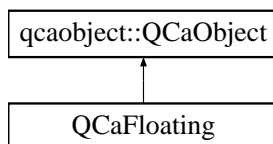
- static QEvent::Type **EVENT\_UPDATE\_TYPE** = QEvent::User

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaEventUpdate.h
- /home/rhydera/epicsqt/framework/data/src/QCaEventUpdate.cpp

## 10.48 QCaFloating Class Reference

Inheritance diagram for QCaFloating:



### Public Slots

- void **writeFloating** (const double &data)

### Signals

- void **floatingConnectionChanged** ([QCaConnectionInfo](#) &connectionInfo, const unsigned int &variableIndex)
- void **floatingChanged** (const double &value, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &timeStamp, const unsigned int &variableIndex)
- void **floatingArrayChanged** (const QVector< double > &values, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &timeStamp, const unsigned int &variableIndex)

### Public Member Functions

- **QCaFloating** (QString recordName, QObject \*eventObject, [QCaFloatingFormatting](#) \*floatingFormattingIn, unsigned int variableIndexIn)
- **QCaFloating** (QString recordName, QObject \*eventObject, [QCaFloatingFormatting](#) \*floatingFormattingIn, unsigned int variableIndexIn, [UserMessage](#) \*userMessageIn)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaFloating.h
- /home/rhydera/epicsqt/framework/data/src/QCaFloating.cpp

## 10.49 QCaFloatingFormatting Class Reference

### Public Types

- enum **formats** {  
    **FORMAT\_e** = 'e', **FORMAT\_E** = 'E', **FORMAT\_f** = 'f', **FORMAT\_g** = 'g',  
    **FORMAT\_G** = 'G' }

### Public Member Functions

- double **formatFloating** (const QVariant &value)
- QVector< double > **formatFloatingArray** (const QVariant &value)
- QVariant **formatValue** (const double &floatingValue, generic::generic\_types valueType)
- void **setPrecision** (unsigned int precision)
- void **setFormat** (formats format)
- unsigned int **getPrecision** ()
- int **getFormat** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaFloatingFormatting.h
- /home/rhydera/epicsqt/framework/data/src/QCaFloatingFormatting.cpp

## 10.50 QCaInstalledFiltersListItem Class Reference

### Public Member Functions

- **QCaInstalledFiltersListItem** (QObject \*eventObjectIn)

### Public Attributes

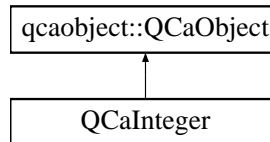
- QObject \* **eventObject**
- long **referenceCount**

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/data/include/QCaEventFilter.h

## 10.51 QCaInteger Class Reference

Inheritance diagram for QCaInteger:



### Public Slots

- void **writeInteger** (const long &data)

### Signals

- void **integerConnectionChanged** ([QCaConnectionInfo](#) &connectionInfo, const unsigned int &variableIndex)
- void **integerChanged** (const long &value, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &timeStamp, const unsigned int &variableIndex)
- void **integerArrayChanged** (const QVector< long > &values, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &timeStamp, const unsigned int &variableIndex)

### Public Member Functions

- **QCaInteger** (QString recordName, QObject \*eventObject, [QCaIntegerFormatting](#) \*integerFormattingIn, unsigned int variableIndexIn)
- **QCaInteger** (QString recordName, QObject \*eventObject, [QCaIntegerFormatting](#) \*integerFormattingIn, unsigned int variableIndexIn, [UserMessage](#) \*userMessageIn)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaInteger.h
- /home/rhydera/epicsqt/framework/data/src/QCaInteger.cpp

## 10.52 QCaIntegerFormatting Class Reference

### Public Member Functions

- long **formatInteger** (const QVariant &value)
- QVector< long > **formatIntegerArray** (const QVariant &value)
- QVariant **formatValue** (const long &integerValue, generic::generic\_types valueType)

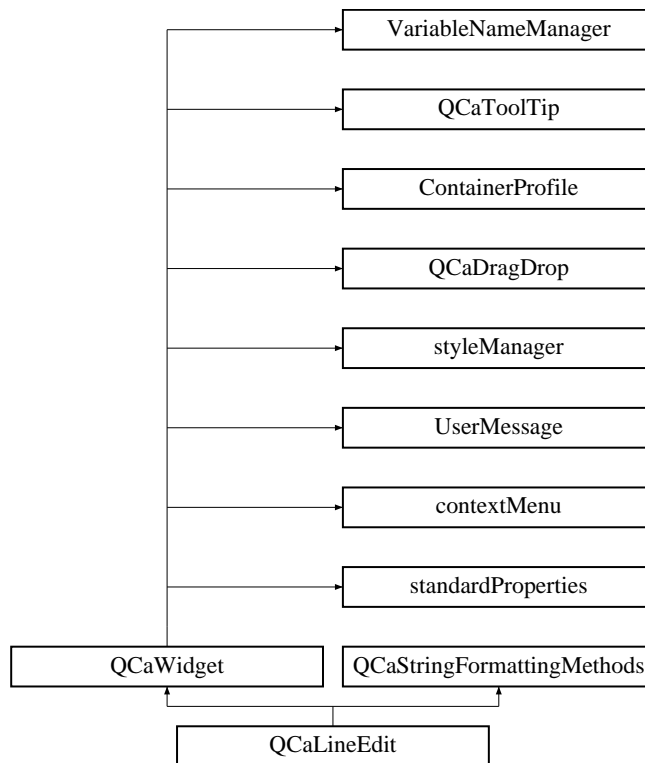
- void **setRadix** (unsigned int radix)
- unsigned int **getPrecision** ()
- unsigned int **getRadix** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaIntegerFormatting.h
- /home/rhydera/epicsqt/framework/data/src/QCaIntegerFormatting.cpp

## 10.53 QCaLineEdit Class Reference

Inheritance diagram for QCaLineEdit:



### Public Slots

- void **requestEnabled** (const bool &state)  
*Act on the user signaling text editing is complete (pressing return)*
- void **writeNow** ()

## Signals

- void **dbValueChanged** (const QString &out)
- void **userChange** (const QString &oldValue, const QString &newValue, const QString &lastValue)
- void **requestResend** ()

## Public Member Functions

- [QCaLineEdit](#) (QWidget \*parent=0)
- [QCaLineEdit](#) (const QString &variableName, QWidget \*parent=0)
- bool [isEnabled](#) () const
- void [setEnabled](#) (bool state)
- void **setWriteOnLoseFocus** (bool writeOnLoseFocus)
- bool **getWriteOnLoseFocus** ()
- void **setWriteOnEnter** (bool [writeOnEnter](#))
- bool **getWriteOnEnter** ()
- void **setWriteOnFinish** (bool [writeOnFinish](#))
- bool **getWriteOnFinish** ()
- void **setSubscribe** (bool subscribe)
- bool **getSubscribe** ()
- void **setConfirmWrite** (bool [confirmWrite](#))
- bool **getConfirmWrite** ()

## Protected Member Functions

- void [establishConnection](#) (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

## Protected Attributes

- bool **writeOnLoseFocus**
- bool [writeOnEnter](#)  
*Write changed value to database when widget object loses focus (user moves from widget)*
- bool [writeOnFinish](#)  
*Write changed value to database when enter is pressed with focus on the widget.*
- bool [localEnabled](#)  
*Write changed value to database when user finishes editing (leaves a widget)*
- bool [confirmWrite](#)  
*Override the default widget setEnabled to allow alarm states to override current enabled state.*
- bool [allowDrop](#)  
*Request confirmation before writing a value.*

### 10.53.1 Constructor & Destructor Documentation

#### 10.53.1.1 QCaLineEdit::QCaLineEdit ( QWidget \* *parent* = 0 )

This class is a CA aware line edit widget based on the Qt line edit widget. It is tightly integrated with the base class [QCaWidget](#). Refer to QCaWidget.cpp for details

Constructor with no initialisation

#### 10.53.1.2 QCaLineEdit::QCaLineEdit ( const QString & *variableNameIn*, QWidget \* *parent* = 0 )

Constructor with known variable

### 10.53.2 Member Function Documentation

#### 10.53.2.1 void QCaLineEdit::establishConnection ( unsigned int *variableIndex* ) [protected, virtual]

Start updating. Implementation of VariableNameManager's virtual funtion to establish a connection to a PV as the variable name has changed. This function may also be used to initiate updates when loaded as a plugin.

Reimplemented from [QCaWidget](#).

#### 10.53.2.2 bool QCaLineEdit::isEnabled ( ) const

Override the default widget isEnabled to allow alarm states to override current enabled state

Return what the state of widget would be if connected.

#### 10.53.2.3 void QCaLineEdit::requestEnabled ( const bool & *state* ) [slot]

Act on the user signaling text editing is complete (pressing return)

Slot similar to default widget setEnabled, but will use our own setEnabled which will allow alarm states to override current enabled state

#### 10.53.2.4 void QCaLineEdit::setEnabled ( bool *state* )

Override the default widget setEnabled to allow alarm states to override current enabled state

Note the new 'enabled' state

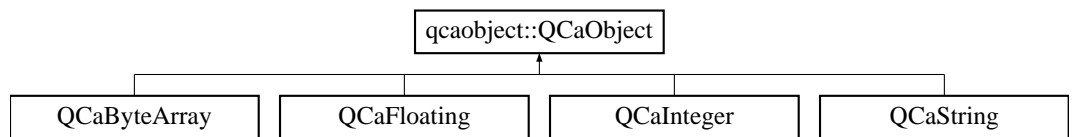
Set the enabled state of the widget only if connected

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/QCaLineEdit.h
- /home/rhydera/epicsqt/framework/widgets/src/QCaLineEdit.cpp

## 10.54 qcaobject::QCaObject Class Reference

Inheritance diagram for qcaobject::QCaObject:



### Public Slots

- bool **writeData** (const QVariant &value)
- void **resendLastData** ()

### Signals

- void **dataChanged** (const QVariant &value, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &timeStamp)
- void **dataChanged** (const QByteArray &value, unsigned long dataSize, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &timeStamp)
- void **connectionChanged** ([QCaConnectionInfo](#) &connectionInfo)

### Public Member Functions

- **QCaObject** (const QString &recordName, QObject \*eventObject, unsigned char signalsToSendIn=SIG\_VARIANT)
- **QCaObject** (const QString &recordName, QObject \*eventObject, [UserMessage](#) \*userMessageIn, unsigned char signalsToSendIn=SIG\_VARIANT)
- bool **subscribe** ()
- bool **singleShotRead** ()
- bool **dataTypeKnown** ()
- bool **createChannel** ()
- void **deleteChannel** ()
- bool **createSubscription** ()
- bool **getChannel** ()
- bool **putChannel** ()
- bool **isChannelConnected** ()
- void **startConnectionTimer** ()
- void **stopConnectionTimer** ()



- void **setUserMessage** ([UserMessage](#) \*userMessageIn)
- void **enableWriteCallbacks** (bool enable)
- bool **isWriteCallbacksEnabled** ()
- QString **getEgu** ()
- QStringList **getEnumerations** ()
- unsigned int **getPrecision** ()
- double **getDisplayLimitUpper** ()
- double **getDisplayLimitLower** ()
- double **getAlarmLimitUpper** ()
- double **getAlarmLimitLower** ()
- double **getWarningLimitUpper** ()
- double **getWarningLimitLower** ()
- double **getControlLimitUpper** ()
- double **getControlLimitLower** ()
- generic::generic\_types **getDataType** ()

### Static Public Member Functions

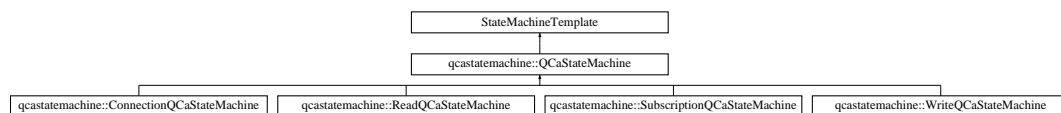
- static void **processEventStatic** ([QCaEventUpdate](#) \*dataUpdateEvent)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaObject.h
- /home/rhydera/epicsqt/framework/data/src/QCaObject.cpp

## 10.55 qcastatemachine::QCaStateMachine Class Reference

Inheritance diagram for qcastatemachine::QCaStateMachine:



### Public Member Functions

- **QCaStateMachine** (void \*parent)
- virtual bool **process** (int requestedState)=0

## Public Attributes

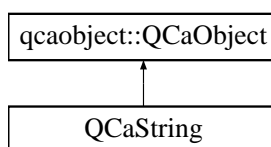
- QMutex **lock**
- bool **pending**
- bool **active**
- bool **expired**
- void \* **myWorker**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaStateMachine.h
- /home/rhydera/epicsqt/framework/data/src/QCaStateMachine.cpp

## 10.56 QCaString Class Reference

Inheritance diagram for QCaString:



## Public Slots

- void **writeString** (const QString &data)

## Signals

- void **stringConnectionChanged** ([QCaConnectionInfo](#) &connectionInfo, const unsigned int &variableIndex)
- void **stringChanged** (const QString &value, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &timeStamp, const unsigned int &variableIndex)

## Public Member Functions

- **QCaString** (QString recordName, QObject \*eventObject, [QCaStringFormatting](#) \*stringFormattingIn, unsigned int variableIndexIn)
- **QCaString** (QString recordName, QObject \*eventObject, [QCaStringFormatting](#) \*stringFormattingIn, unsigned int variableIndexIn, [UserMessage](#) \*userMessageIn)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaString.h
- /home/rhydera/epicsqt/framework/data/src/QCaString.cpp

## 10.57 QCaStringFormatting Class Reference

### Public Types

- enum **formats** {  
**FORMAT\_DEFAULT**, **FORMAT\_FLOATING**, **FORMAT\_INTEGER**, **FORMAT\_UNSIGNEDINTEGER**,  
**FORMAT\_TIME**, **FORMAT\_LOCAL\_ENUMERATE** }
- enum **notations** { **NOTATION\_FIXED** = QTextStream::FixedNotation, **NOTATION\_SCIENTIFIC** = QTextStream::ScientificNotation, **NOTATION\_AUTOMATIC** = QTextStream::SmartNotation }
- enum **arrayActions** { **APPEND**, **ASCII**, **INDEX** }

### Public Member Functions

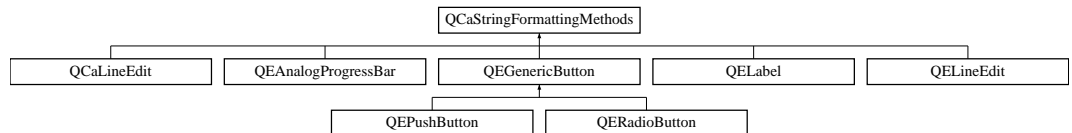
- QString **formatString** (const QVariant &value)
- QVariant **formatValue** (const QString &text)
- void **setDbEgu** (QString egu)
- void **setDbEnumerations** (QStringList enumerations)
- void **setDbPrecision** (unsigned int dbPrecisionIn)
- void **setDbVariableIsStatField** (bool isStatField)
- void **setPrecision** (int precision)
- void **setUseDbPrecision** (bool useDbPrecision)
- void **setLeadingZero** (bool leadingZero)
- void **setTrailingZeros** (bool trailingZeros)
- void **setFormat** (formats format)
- void **setRadix** (unsigned int radix)
- void **setNotation** (notations notation)
- void **setArrayAction** (arrayActions arrayActionIn)
- void **setArrayIndex** (unsigned int arrayIndexIn)
- void **setAddUnits** (bool addUnits)
- void **setLocalEnumeration** (QString localEnumerationIn)
- int **getPrecision** ()
- bool **getUseDbPrecision** ()
- bool **getLeadingZero** ()
- bool **getTrailingZeros** ()
- formats **getFormat** ()
- unsigned int **getRadix** ()
- notations **getNotation** ()
- arrayActions **getArrayAction** ()
- unsigned int **getArrayIndex** ()
- bool **getAddUnits** ()
- QString **getLocalEnumeration** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaStringFormatting.h
- /home/rhydera/epicsqt/framework/data/src/QCaStringFormatting.cpp

## 10.58 QCaStringFormattingMethods Class Reference

Inheritance diagram for QCaStringFormattingMethods:



### Public Member Functions

- virtual void **stringFormattingChange** ()=0
- void **setPrecision** (int precision)
- int **getPrecision** ()
- void **setUseDbPrecision** (bool useDbPrecision)
- bool **getUseDbPrecision** ()
- void **setLeadingZero** (bool leadingZero)
- bool **getLeadingZero** ()
- void **setTrailingZeros** (bool trailingZeros)
- bool **getTrailingZeros** ()
- void **setAddUnits** (bool addUnits)
- bool **getAddUnits** ()
- void **setLocalEnumeration** (QString localEnumeration)
- QString **getLocalEnumeration** ()
- void **setFormat** (QCaStringFormatting::formats format)
- QCaStringFormatting::formats **getFormat** ()
- void **setRadix** (unsigned int radix)
- unsigned int **getRadix** ()
- void **setNotation** (QCaStringFormatting::notations notation)
- QCaStringFormatting::notations **getNotation** ()
- void **setArrayAction** (QCaStringFormatting::arrayActions arrayAction)
- QCaStringFormatting::arrayActions **getArrayAction** ()
- void **setArrayIndex** (unsigned int arrayIndex)
- unsigned int **getArrayIndex** ()

### Protected Attributes

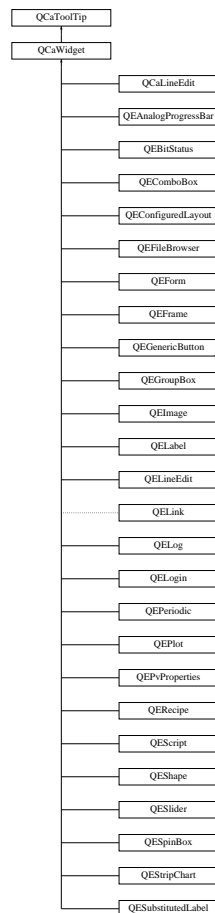
- [QCaStringFormatting](#) **stringFormatting**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/QCaStringFormattingMethods.h
- /home/rhydera/epicsqt/framework/widgets/src/QCaStringFormattingMethods.cpp

## 10.59 QCaToolTip Class Reference

Inheritance diagram for QCaToolTip:



### Public Member Functions

- void **updateToolTipVariable** (const QString &variable)
- void **updateToolTipAlarm** (const QString &alarm)
- void **updateToolTipConnection** (bool connection)
- virtual void **updateToolTip** (const QString &)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/QCaToolTip.h
- /home/rhydera/epicsqt/framework/widgets/src/QCaToolTip.cpp

## 10.60 QCaVariableNamePropertyManager Class Reference

### Signals

- void **newVariableNameProperty** (QString variable, QString Substitutions, unsigned int variableIndex)

### Public Member Functions

- QString **getVariableNameProperty** ()
- void **setVariableNameProperty** (QString variableNamePropertyIn)
- QString **getSubstitutionsProperty** ()
- void **setSubstitutionsProperty** (QString substitutionsPropertyIn)
- void **setVariableIndex** (unsigned int variableIndexIn)

The documentation for this class was generated from the following files:

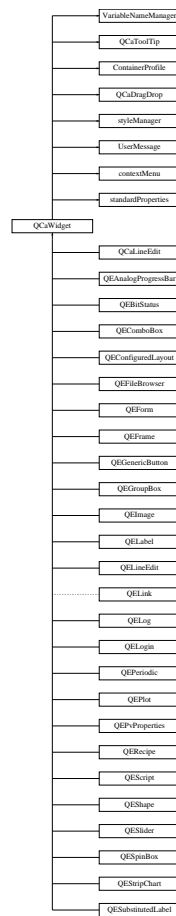
- /home/rhydera/epicsqt/framework/data/include/QCaVariableNamePropertyManager.h
- /home/rhydera/epicsqt/framework/data/src/QCaVariableNamePropertyManager.cpp

## 10.61 QCaWidget Class Reference

! since this class is only ever used as a base class, it doesn't need to be exported

```
#include <QCaWidget.h>
```

Inheritance diagram for QCaWidget:



## Public Member Functions

- **QCaWidget** (QWidget \*ownerIn)
- void **activate** ()
- unsigned int **getMessageSourceId** ()
- void **setMessageSourceId** (unsigned int messageSourceId)
- [qcaobject::QCaObject](#) \* **getQcaltem** (unsigned int variableIndex)
- void **setupContextMenu** (QWidget \*w)
- QColor **getColor** ([QCaAlarmInfo](#) &alarmInfo, const int saturation)
- void **readNow** ()
- virtual void **writeNow** ()
- virtual void **setVariableNameAndSubstitutions** (QString variableNameIn, QString variableNameSubstitutionsIn, unsigned int variableIndex)
- QFile \* **openQEFile** (QString name, QFile::OpenModeFlag mode)
- QString **defaultFileLocation** ()

### Static Public Member Functions

- static bool **inDesigner** ()

### Protected Member Functions

- void **setNumVariables** (unsigned int numVariablesIn)
- [qcaobject::QCaObject](#) \* **createConnection** (unsigned int variableIndex)
- virtual [qcaobject::QCaObject](#) \* **createQcalItem** (unsigned int variableIndex)
- virtual void **establishConnection** (unsigned int variableIndex)
- void **setVariableAsToolTip** (bool variableAsToolTip)
- bool **getVariableAsToolTip** ()

### Protected Attributes

- bool **subscribe**
- bool **variableAsToolTip**

#### 10.61.1 Detailed Description

! since this class is only ever used as a base class, it doesn't need to be exported

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/QCaWidget.h
- /home/rhydera/epicsqt/framework/widgets/src/QCaWidget.cpp

## 10.62 QCaWidgets Class Reference

### Public Member Functions

- **QCaWidgets** (QObject \*parent=0)
- virtual QList< QDesignerCustomWidgetInterface \* > **customWidgets** () const

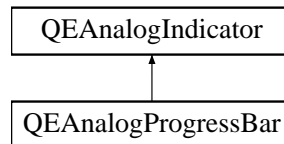
The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/QCaDesignerPlugin.h
- /home/rhydera/epicsqt/framework/widgets/src/QCaDesignerPlugin.cpp



## 10.63 QEAnalogIndicator Class Reference

Inheritance diagram for QEAnalogIndicator:



### Classes

- struct [Band](#)
- class [BandList](#)

### Public Types

- enum **Orientations** { **Left\_To\_Right**, **Top\_To\_Bottom**, **Right\_To\_Left**, **Bottom\_To\_Top** }
- enum **Modes** { **Bar**, **Scale**, **Meter** }

### Public Slots

- void **setRange** (const double MinimumIn, const double MaximumIn)
- void **setValue** (const double ValueIn)

### Public Member Functions

- **QEAnalogIndicator** (QWidget \*parent=0)
- virtual QSize **sizeHint** () const
- double **getValue** ()
- void **setMinimum** (const double value)
- double **getMinimum** ()
- void **setMaximum** (const double value)
- double **getMaximum** ()
- void **setOrientation** (const enum Orientations value)
- enum Orientations **getOrientation** ()
- void **setMode** (const enum Modes value)
- enum Modes **getMode** ()
- void **setCentreAngle** (const int value)
- int **getCentreAngle** ()
- void **setSpanAngle** (const int value)
- int **getSpanAngle** ()
- void **setMinorInterval** (const double value)

- double **getMinorInterval** ()
- void **setMajorInterval** (const double value)
- double **getMajorInterval** ()
- void **setLogScaleInterval** (const int value)
- int **getLogScaleInterval** ()
- void **setBorderColour** (const QColor value)
- QColor **getBorderColour** ()
- void **setForegroundColour** (const QColor value)
- QColor **getForegroundColour** ()
- void **setBackgroundColour** (const QColor value)
- QColor **getBackgroundColour** ()
- void **setFontColour** (const QColor value)
- QColor **getFontColour** ()
- void **setShowText** (const bool value)
- bool **getShowText** ()
- void **setShowScale** (const bool value)
- bool **getShowScale** ()
- void **setLogScale** (const bool value)
- bool **getLogScale** ()

### Protected Member Functions

- virtual QString **getTextImage** ()
- virtual [BandList](#) **getBandList** ()

### Properties

- double **value**
- double **minimum**
- double **maximum**
- double **minorInterval**
- double **majorInterval**
- int **logScaleInterval**
- bool **showText**
- bool **showScale**
- bool **logScale**
- Modes **mode**
- Orientations **orientation**
- int **centreAngle**
- int **spanAngle**
- QColor **borderColour**
- QColor **backgroundColour**
- QColor **foregroundColour**
- QColor **fontColour**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicator.h
- /home/rhydera/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicator.cpp

## 10.64 QEAnalogIndicatorManager Class Reference

### Public Member Functions

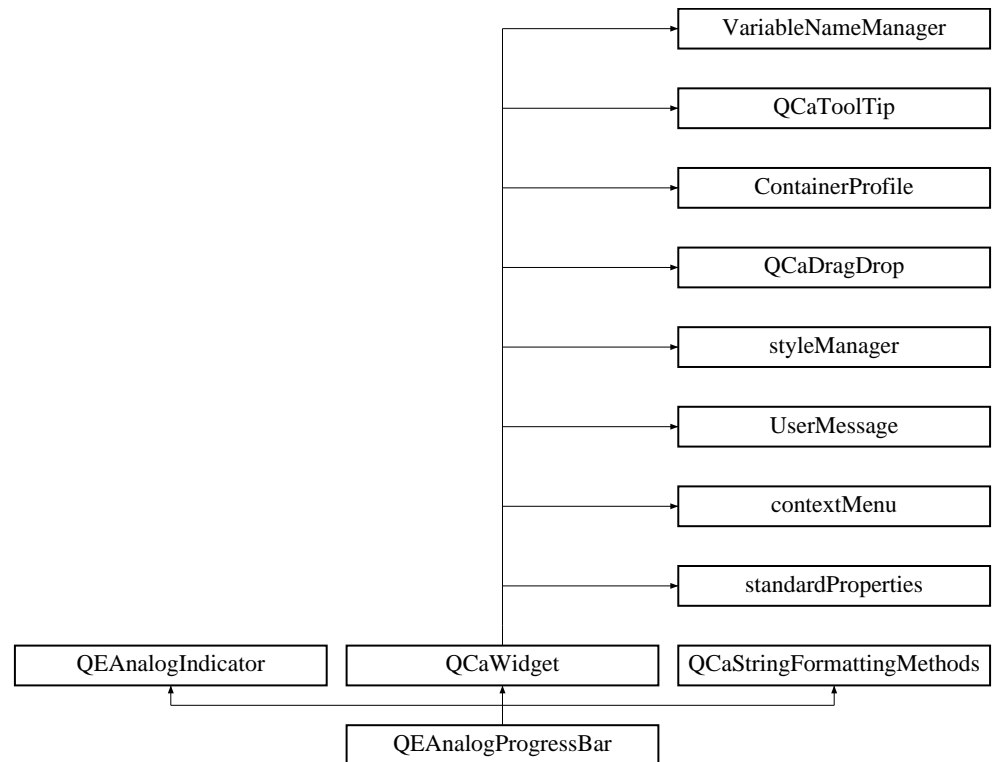
- **QEAnalogIndicatorManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicatorManager.h
- /home/rhydera/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicatorManager.cpp

## 10.65 QEAnalogProgressBar Class Reference

Inheritance diagram for QEAnalogProgressBar:



## Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }
- enum **Formats** {  
**Default** = QCaStringFormatting::FORMAT\_DEFAULT, **Floating** = QCaStringFormatting::FORMAT\_FLOATING, **Integer** = QCaStringFormatting::FORMAT\_INTEGER, **UnsignedInteger** = QCaStringFormatting::FORMAT\_UNSIGNEDINTEGER,  
**Time** = QCaStringFormatting::FORMAT\_TIME, **LocalEnumeration** = QCaStringFormatting::FORMAT\_LOCAL\_ENUMERATE }
- enum **Notations** { **Fixed** = QCaStringFormatting::NOTATION\_FIXED, **Scientific** = QCaStringFormatting::NOTATION\_SCIENTIFIC, **Automatic** = QCaStringFormatting::NOTATION\_AUTOMATIC }
- enum **ArrayActions** { **Append** = QCaStringFormatting::APPEND, **Ascii** = QCaStringFormatting::ASCII, **Index** = QCaStringFormatting::INDEX }
- enum **AlarmSeverityDisplayModes** { **none**, **foreground**, **background** }

## Public Slots

- void **requestEnabled** (const bool &state)

## Signals

- void **dbValueChanged** (const double &out)  
*move into Standard Properties section??*
- void **requestResend** ()

## Public Member Functions

- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- void **setFormatProperty** (Formats format)
- Formats **getFormatProperty** ()
- void **setNotationProperty** (Notations notation)
- Notations **getNotationProperty** ()
- void **setArrayActionProperty** (ArrayActions arrayAction)
- ArrayActions **getArrayActionProperty** ()
- **QEAAnalogProgressBar** (QWidget \*parent=0)
- **QEAAnalogProgressBar** (const QString &variableName, QWidget \*parent=0)
- void **setVariableNameAndSubstitutions** (QString variableNameIn, QString variableNameSubstitutionsIn, unsigned int variableIndex)
- void **setUseDbDisplayLimits** (bool useDbDisplayLimitsIn)
- bool **getUseDbDisplayLimits** ()
- void **setAlarmSeverityDisplayMode** (AlarmSeverityDisplayModes value)
- AlarmSeverityDisplayModes **getAlarmSeverityDisplayMode** ()

## Protected Member Functions

- QString **getTextImage** ()  
*move into Standard Properties section??*
- **BandList** **getBandList** ()
- void **establishConnection** (unsigned int variableIndex)
- void **stringFormattingChange** ()
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **mousePressEvent** (QMouseEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()
- QString **copyVariable** ()
- QVariant **copyData** ()

### Protected Attributes

- [QCaFloatingFormatting](#) **floatingFormatting**

### Properties

- QString **variable**
- QString **variableSubstitutions**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**
- int **precision**
- bool **useDbPrecision**
- bool **leadingZero**
- bool **trailingZeros**
- bool **addUnits**
- QString **localEnumeration**
- Formats **format**
- Notations **notation**
- ArrayActions **arrayAction**
- bool **useDbDisplayLimits**
- AlarmSeverityDisplayModes **alarmSeverityDisplayMode**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEAnalogProgressBar/QEAnalogProgressBar.h
- /home/rhydera/epicsqt/framework/widgets/QEAnalogProgressBar/QEAnalogProgressBar.cpp

## 10.66 QEAnalogProgressBarManager Class Reference

### Public Member Functions

- **QEAnalogProgressBarManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const

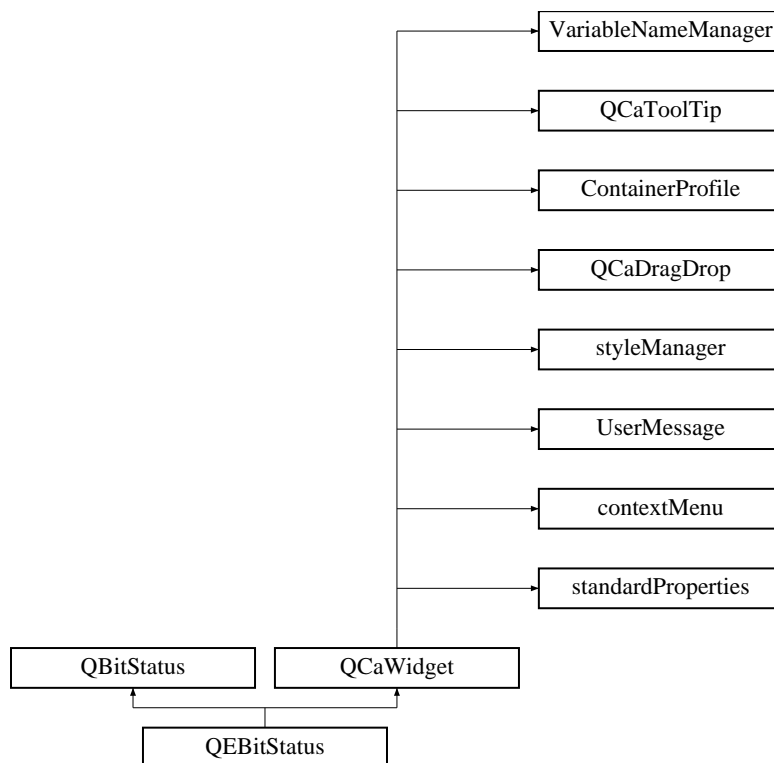
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEAnalogProgressBar/QEAnalogProgressBarManager.h
- /home/rhydera/epicsqt/framework/widgets/QEAnalogProgressBar/QEAnalogProgressBarManager.cpp

## 10.67 QEBitStatus Class Reference

Inheritance diagram for QEBitStatus:



### Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

## Public Slots

- void **requestEnabled** (const bool &state)

## Signals

- void **dbValueChanged** (const long &out)

## Public Member Functions

- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- **QBitStatus** (QWidget \*parent=0)
- **QBitStatus** (const QString &variableName, QWidget \*parent=0)
- void **setVariableNameAndSubstitutions** (QString variableNameIn, QString variableNameSubstitutionsIn, unsigned int variableIndex)

## Protected Member Functions

- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **mousePressEvent** (QMouseEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()
- QString **copyVariable** ()
- QVariant **copyData** ()

## Protected Attributes

- [QCalIntegerFormatting integerFormatting](#)  
*move into Standard Properties section??*



## Properties

- QString **variable**
- QString **variableSubstitutions**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEBitStatus/QEBitStatus.h
- /home/rhydera/epicsqt/framework/widgets/QEBitStatus/QEBitStatus.cpp

## 10.68 QEBitStatusManager Class Reference

### Public Member Functions

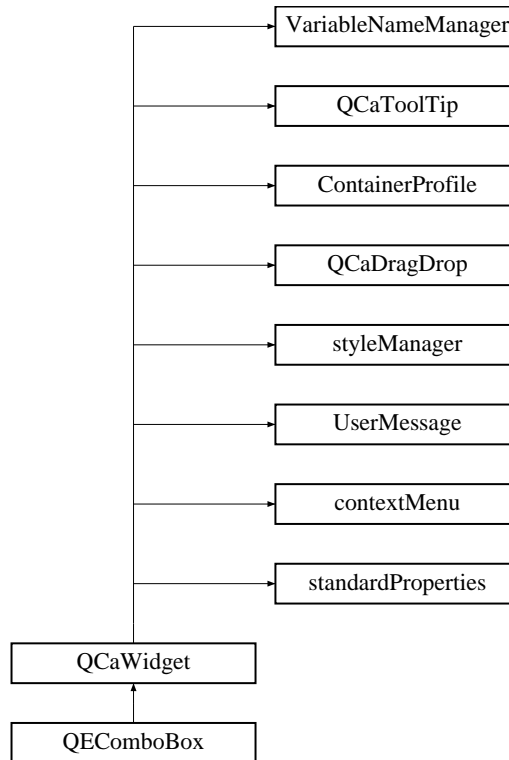
- **QEBitStatusManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEBitStatus/QEBitStatusManager.h
- /home/rhydera/epicsqt/framework/widgets/QEBitStatus/QEBitStatusManager.cpp

## 10.69 QEComboBox Class Reference

Inheritance diagram for QEComboBox:



### Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

### Public Slots

- void **requestEnabled** (const bool &state)
- void **writeNow** ()  
*move into Standard Properties section??*

### Signals

- void **dbValueChanged** (const qlonglong &out)
- void **userChange** (const QString &oldValue, const QString &newValue, const QString &lastValue)

## Public Member Functions

- **QComboBox** (QWidget \*parent=0)
- **QComboBox** (const QString &variableName, QWidget \*parent=0)
- void **setWriteOnChange** (bool writeOnChangeIn)
- bool **getWriteOnChange** ()
- void **setSubscribe** (bool subscribe)
- bool **getSubscribe** ()
- void **setUseDbEnumerations** (bool useDbEnumerations)
- bool **getUseDbEnumerations** ()
- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)

## Protected Member Functions

- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

## Protected Attributes

- [QCalIntegerFormatting](#) **integerFormatting**
- bool **useDbEnumerations**
- bool **writeOnChange**

## Properties

- QString **variable**
- QString **variableSubstitutions**
- bool **subscribe**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**

- unsigned **int**
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEComboBox/QEComboBox.h
- /home/rhydera/epicsqt/framework/widgets/QEComboBox/QEComboBox.cpp

## 10.70 QEComboBoxManager Class Reference

### Public Member Functions

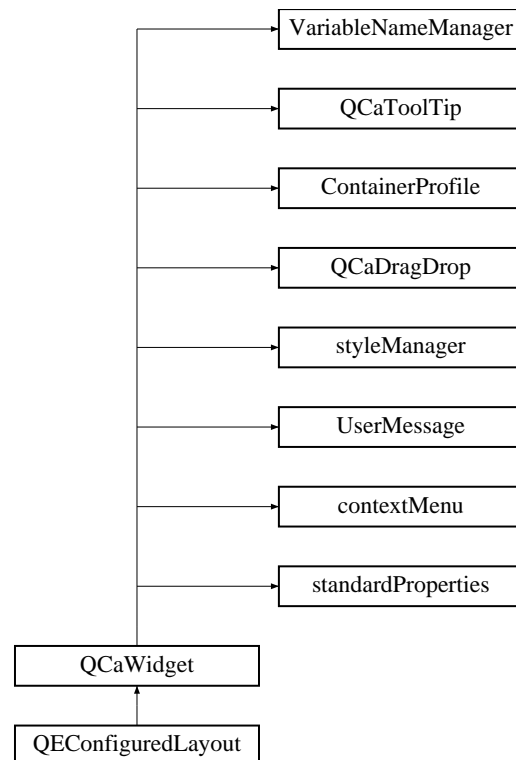
- **QEComboBoxManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEComboBox/QEComboBoxManager.h
- /home/rhydera/epicsqt/framework/widgets/QEComboBox/QEComboBoxManager.cpp

## 10.71 QEConfiguredLayout Class Reference

Inheritance diagram for QEConfiguredLayout:



### Public Types

- enum **configurationTypesProperty** { **File** = FROM\_FILE, **Text** = FROM\_TEXT }
- enum **detailsLayoutProperty** { **Top** = TOP, **Bottom** = BOTTOM, **Left** = LEFT, **Right** = RIGHT }
- enum **userTypesProperty** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

### Public Member Functions

- **QEConfiguredLayout** (QWidget \*pParent=0, bool pSubscription=true)
- void **setItemDescription** (QString pValue)
- QString **getItemDescription** ()
- void **setShowItemList** (bool pValue)
- bool **getShowItemList** ()
- void **setConfigurationType** (int pValue)
- int **getConfigurationType** ()
- void **setConfigurationFile** (QString pValue)
- QString **getConfigurationFile** ()
- void **setConfigurationText** (QString pValue)
- QString **getConfigurationText** ()

- void **setDetailsLayout** (int pValue)
- int **getDetailsLayout** ()
- void **setCurrentUserType** (int pValue)
- int **getCurrentUserType** ()
- void **refreshFields** ()
- void **userLevelChanged** (userLevels pValue)
- void **setConfigurationTypeProperty** (configurationTypesProperty pConfigurationType)
- configurationTypesProperty **getConfigurationTypeProperty** ()
- void **setDetailsLayoutProperty** (detailsLayoutProperty pDetailsLayout)
- detailsLayoutProperty **getDetailsLayoutProperty** ()
- void **setCurrentUserTypeProperty** (userTypesProperty pUserType)
- userTypesProperty **getCurrentUserTypeProperty** ()

### Public Attributes

- QList< [\\_Item](#) \* > **itemList**
- QList< [\\_Field](#) \* > **currentFieldList**

### Protected Attributes

- QLabel \* **qLabelItemDescription**
- QComboBox \* **qComboBoxItemList**
- QVBoxLayout \* **qVBoxLayoutFields**
- QScrollArea \* **qScrollArea**
- QString **configurationFile**
- QString **configurationText**
- int **configurationType**
- int **detailsLayout**
- int **currentUserType**
- bool **subscription**

### Properties

- QString **itemDescription**
- bool **showItemList**
- configurationTypesProperty **configurationType**
- detailsLayoutProperty **detailsLayout**
- userTypesProperty **currentUserType**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.h
- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.cpp

## 10.72 QEConfiguredLayoutManager Class Reference

### Public Member Functions

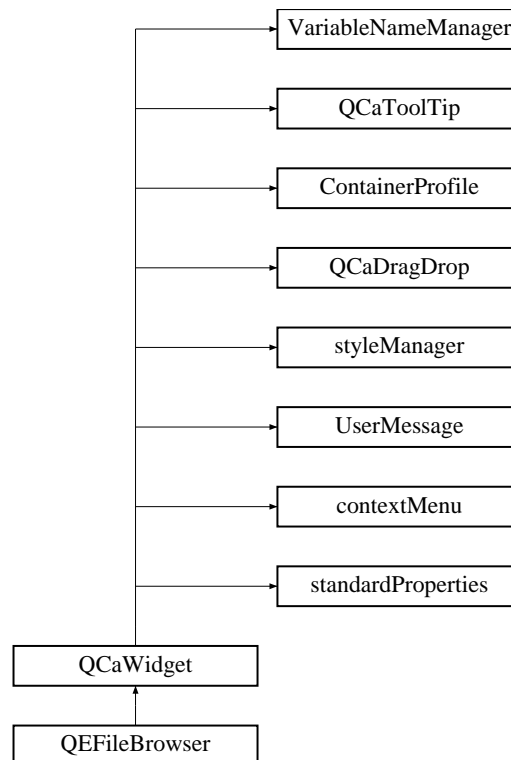
- **QEConfiguredLayoutManager** (QObject \*pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*pParent)
- void **initialize** (QDesignerFormEditorInterface \*pCore)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayoutManager.h
- /home/rhydera/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayoutManager.cpp

## 10.73 QEFileBrowser Class Reference

Inheritance diagram for QEFileBrowser:



### Public Types

- enum **detailsLayoutProperty** { **Top** = TOP, **Bottom** = BOTTOM, **Left** = LEFT, **Right** = RIGHT }

### Signals

- void **selected** (QString pFilename)

### Public Member Functions

- **QFileBrowser** (QWidget \*pParent=0)
- void **setDirectoryPath** (QString pValue)
- QString **getDirectoryPath** ()
- void **setShowDirectoryPath** (bool pValue)
- bool **getShowDirectoryPath** ()
- void **setShowDirectoryBrowser** (bool pValue)
- bool **getShowDirectoryBrowser** ()
- void **setShowRefresh** (bool pValue)
- bool **getShowRefresh** ()
- void **setShowColumnTime** (bool pValue)



- bool **getShowColumnTime** ()
- void **setShowColumnSize** (bool pValue)
- bool **getShowColumnSize** ()
- void **setShowColumnFilename** (bool pValue)
- bool **getShowColumnFilename** ()
- void **setShowFileExtension** (bool pValue)
- bool **getShowFileExtension** ()
- void **setFileFilter** (QString pValue)
- QString **getFileFilter** ()
- void **setDetailsLayout** (int pValue)
- int **getDetailsLayout** ()
- void **updateTable** ()
- void **setDetailsLayoutProperty** (detailsLayoutProperty pDetailsLayout)
- detailsLayoutProperty **getDetailsLayoutProperty** ()

### Protected Attributes

- QLineEdit \* **qlineEditDirectoryPath**
- QPushButton \* **qPushButtonDirectoryBrowser**
- QPushButton \* **qPushButtonRefresh**
- [\\_QTableWidgetFileBrowser](#) \* **qTableWidgetFileBrowser**
- QString **fileFilter**
- bool **showFileExtension**
- int **detailsLayout**

### Properties

- QString **directoryPath**
- bool **showDirectoryPath**
- bool **showDirectoryBrowser**
- bool **showRefresh**
- bool **showColumnTime**
- bool **showColumnSize**
- bool **showColumnFilename**
- detailsLayoutProperty **detailsLayout**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QFileBrowser/QFileBrowser.h
- /home/rhydera/epicsqt/framework/widgets/QFileBrowser/QFileBrowser.cpp

## 10.74 QEFileBrowserManager Class Reference

### Public Member Functions

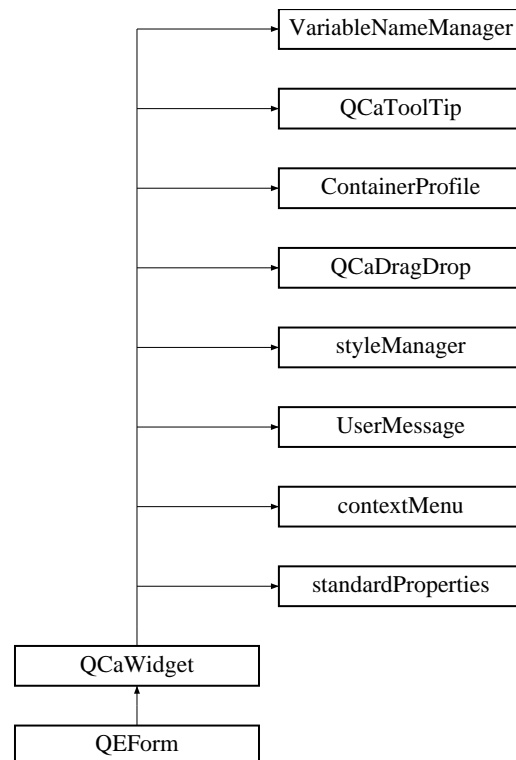
- **QEFileBrowserManager** (QObject \*pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*pParent)
- void **initialize** (QDesignerFormEditorInterface \*pCore)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEFileBrowser/QEFileBrowserManager.h
- /home/rhydera/epicsqt/framework/widgets/QEFileBrowser/QEFileBrowserManager.cpp

## 10.75 QEForm Class Reference

Inheritance diagram for QEForm:



### Public Types

- enum **creationOptions** { **CREATION\_OPTION\_OPEN**, **CREATION\_OPTION\_NEW\_TAB**, **CREATION\_OPTION\_NEW\_WINDOW** }
- enum **MessageFilterOptions** { **Match** = UserMessage::MESSAGE\_FILTER\_MATCH, **None** = UserMessage::MESSAGE\_FILTER\_NONE }

### Public Slots

- void **requestEnabled** (const bool &state)
- bool **readUiFile** ()
- void **launchGui** (QString guiName, QEForm::creationOptions createOption)

### Public Member Functions

- **QEForm** (QWidget \*parent=0)
- **QEForm** (const QString &uifileName, QWidget \*parent=0)
- void **commonInit** (const bool alertIfUINoFoundIn)
- QString **getASGuiTitle** ()
- QString **getFullFileName** ()

- void **setVariableNameAndSubstitutions** (QString variableNameIn, QString variableNameSubstitutionsIn, unsigned int variableIndex)
- void **setUiFileName** (QString uiFile)
- QString **getUiFileName** ()
- void **setHandleGuiLaunchRequests** (bool handleGuiLaunchRequests)
- bool **getHandleGuiLaunchRequests** ()
- void **setResizeContents** (bool resizeContentsIn)
- bool **getResizeContents** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- MessageFilterOptions **getMessageFormFilter** ()
- void **setMessageFormFilter** (MessageFilterOptions messageFormFilter)
- MessageFilterOptions **getMessageSourceFilter** ()
- void **setMessageSourceFilter** (MessageFilterOptions messageSourceFilter)

### Protected Member Functions

- void **setVariableNameSubstitutions** (QString variableNameSubstitutionsIn)

### Protected Attributes

- QString **uiFileName**
- QString **fullUiFileName**
- bool **handleGuiLaunchRequests**
- bool **resizeContents**

### Properties

- QString **uiFile**
- QString **variableSubstitutions**
- unsigned int
- MessageFilterOptions **messageFormFilter**
- MessageFilterOptions **messageSourceFilter**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEForm/QEForm.h
- /home/rhydera/epicsqt/framework/widgets/QEForm/QEForm.cpp

## 10.76 QFormManager Class Reference

### Public Member Functions

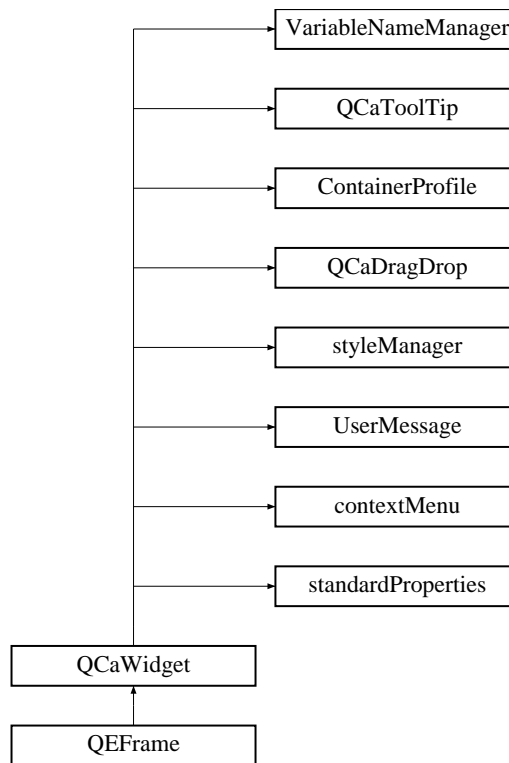
- **QFormManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QForm/QFormManager.h
- /home/rhydera/epicsqt/framework/widgets/QForm/QFormManager.cpp

## 10.77 QFrame Class Reference

Inheritance diagram for QFrame:



### Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

### Public Member Functions

- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- **QFrame** (QWidget \*parent=0)
- QSize **sizeHint** () const

### Properties

- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**

- bool **visible**
- unsigned **int**
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEFrame/QEFrame.h
- /home/rhydera/epicsqt/framework/widgets/QEFrame/QEFrame.cpp

## 10.78 QEFrameManager Class Reference

### Public Member Functions

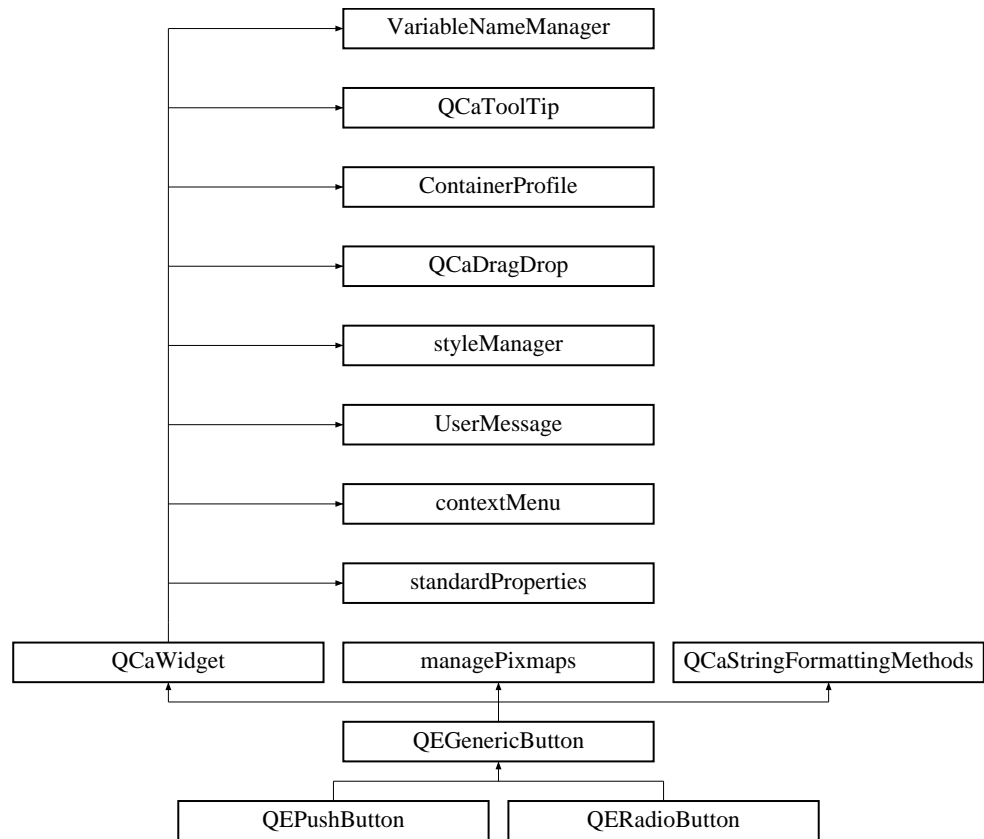
- **QEFrameManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEFrame/QEFrameManager.h
- /home/rhydera/epicsqt/framework/widgets/QEFrame/QEFrameManager.cpp

## 10.79 QEGenericButton Class Reference

Inheritance diagram for QEGenericButton:



## Public Types

- enum **updateOptions** { **UPDATE\_TEXT**, **UPDATE\_ICON**, **UPDATE\_TEXT\_AND\_ICON**, **UPDATE\_STATE** }

## Public Member Functions

- **QEGenericButton** (QWidget \*owner)
- void **setSubscribe** (bool subscribe)
- bool **getSubscribe** ()
- void **setUpdateOption** (updateOptions updateOptionIn)
- updateOptions **getUpdateOption** ()
- void **setTextAlignment** (Qt::Alignment alignment)
- Qt::Alignment **getTextAlignment** ()
- void **setPassword** (QString password)
- QString **getPassword** ()
- void **setWriteOnPress** (bool writeOnPress)
- bool **getWriteOnPress** ()
- void **setWriteOnRelease** (bool writeOnRelease)



- bool **getWriteOnRelease** ()
- void **setWriteOnClick** (bool writeOnClick)
- bool **getWriteOnClick** ()
- void **setPressText** (QString pressText)
- QString **getPressText** ()
- void **setReleaseText** (QString releaseTextIn)
- QString **getReleaseText** ()
- void **setClickText** (QString clickTextIn)
- QString **getClickText** ()
- void **setClickCheckedText** (QString clickCheckedTextIn)
- QString **getClickCheckedText** ()
- void **setProgram** (QString program)
- QString **getProgram** ()
- void **setArguments** (QStringList arguments)
- QStringList **getArguments** ()
- void **setGuiName** (QString guiName)
- QString **getGuiName** ()
- void **setCreationOption** (QForm::creationOptions creationOption)
- QForm::creationOptions **getCreationOption** ()
- void **setLabelTextProperty** (QString labelTextIn)
- QString **getLabelTextProperty** ()
- void **onGeneralMessage** (QString message)

### Protected Member Functions

- void **connectionChanged** ([QCaConnectionInfo](#) &connectionInfo)
- void **setGenericButtonText** (const QString &text, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &, const unsigned int &variableIndex)
- void **userPressed** ()
- void **userReleased** ()
- void **userClicked** (bool checked)
- void **launchGui** (QString guiName, QForm::creationOptions creationOption)
- virtual updateOptions **getDefaultUpdateOption** ()=0
- void **establishConnection** (unsigned int variableIndex)
- bool **getIsConnected** ()
- void **setup** ()

### Protected Attributes

- Qt::Alignment **textAlignment**
- QString **password**
- bool **writeOnPress**
- bool **writeOnRelease**
- bool **writeOnClick**
- QString **releaseText**

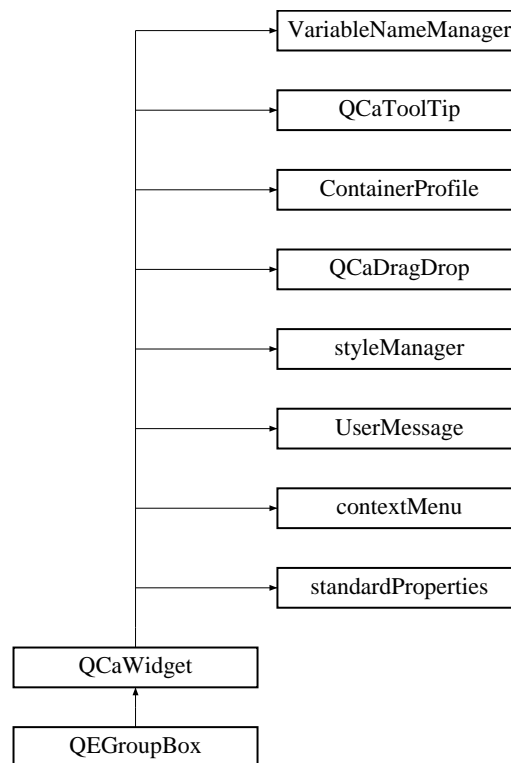
- QString **pressText**
- QString **clickText**
- QString **clickCheckedText**
- QString **program**
- QStringList **arguments**
- QString **guiName**
- QForm::creationOptions **creationOption**
- bool **localEnabled**
- updateOptions **updateOption**
- QString **labelText**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEButton/QEGenericButton.h
- /home/rhydera/epicsqt/framework/widgets/QEButton/QEGenericButton.cpp

## 10.80 QEGroupBox Class Reference

Inheritance diagram for QEGroupBox:



## Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

## Public Member Functions

- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- **QEGroupBox** (QWidget \*parent=0)
- QSize **sizeHint** () const

## Properties

- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEGroupBox/QEGroupBox.h
- /home/rhydera/epicsqt/framework/widgets/QEGroupBox/QEGroupBox.cpp

## 10.81 QEGroupBoxManager Class Reference

### Public Member Functions

- **QEGroupBoxManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const

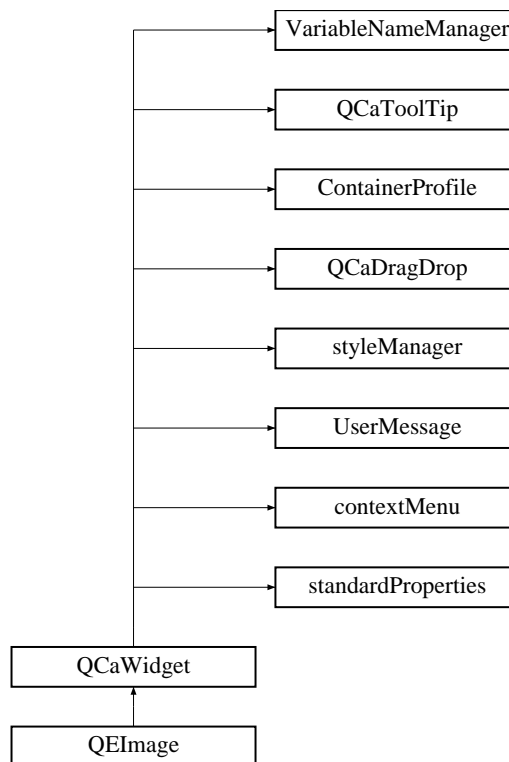
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEGroupBox/QEGroupBoxManager.h
- /home/rhydera/epicsqt/framework/widgets/QEGroupBox/QEGroupBoxManager.cpp

## 10.82 QEImage Class Reference

Inheritance diagram for QEImage:



### Public Types

- enum **selectOptions** {  
**SO\_NONE**, **SO\_PANNING**, **SO\_VSLICE**, **SO\_HSLICE**,  
**SO\_AREA**, **SO\_PROFILE**, **SO\_TARGET**, **SO\_BEAM** }

- enum **formatOptions** { **GREY8**, **GREY12**, **GREY16**, **RGB\_888** }
- enum **resizeOptions** { **RESIZE\_OPTION\_ZOOM**, **RESIZE\_OPTION\_FIT** }
- enum **rotationOptions** { **ROTATION\_0**, **ROTATION\_90\_RIGHT**, **ROTATION\_90\_LEFT**, **ROTATION\_180** }
- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }
- enum **FormatOptions** { **Grey\_8** = QImage::GREY8, **Grey\_12** = QImage::GREY12, **Grey\_16** = QImage::GREY16, **RGB** = QImage::RGB\_888 }
- enum **ResizeOptions** { **Zoom** = QImage::RESIZE\_OPTION\_ZOOM, **Fit** = QImage::RESIZE\_OPTION\_FIT }
- enum **RotationOptions** { **NoRotation** = QImage::ROTATION\_0, **Rotate90Right** = QImage::ROTATION\_90\_RIGHT, **Rotate90Left** = QImage::ROTATION\_90\_LEFT, **Rotate180** = QImage::ROTATION\_180 }

### Public Slots

- void **setSelectPanMode** ()
- void **setSelectVSliceMode** ()
- void **setSelectHSliceMode** ()
- void **setSelectAreaMode** ()
- void **setSelectProfileMode** ()
- void **setSelectTargetMode** ()
- void **setSelectBeamMode** ()
- void **pauseClicked** ()
- void **saveClicked** ()
- void **roiClicked** ()
- void **resetRoiClicked** ()
- void **targetClicked** ()

### Signals

- void **dbValueChanged** (const QString &out)
- void **requestResend** ()

### Public Member Functions

- **QImage** (QWidget \*parent=0)
- **QImage** (const QString &variableName, QWidget \*parent=0)
- selectOptions **getSelectionOption** ()
- void **setFormatOption** (formatOptions formatOption)
- formatOptions **getFormatOption** ()
- void **setResizeOption** (resizeOptions resizeOptionIn)
- resizeOptions **getResizeOption** ()
- void **setZoom** (int zoomIn)
- int **getZoom** ()

- void **setRotation** (rotationOptions rotationIn)
- rotationOptions **getRotation** ()
- void **setHorizontalFlip** (bool flipHozIn)
- bool **getHorizontalFlip** ()
- void **setVerticalFlip** (bool flipVertIn)
- bool **getVerticalFlip** ()
- void **setInitialHozScrollPos** (int initialHosScrollPosIn)
- int **getInitialHozScrollPos** ()
- void **setInitialVertScrollPos** (int initialVertScrollPosIn)
- int **getInitialVertScrollPos** ()
- void **setDisplayAcquirePeriod** (bool displayAcquirePeriodIn)
- bool **getDisplayAcquirePeriod** ()
- void **setDisplayExposureTime** (bool displayExposureTimeIn)
- bool **getDisplayExposureTime** ()
- void **setDisplayButtonBar** (bool displayButtonBarIn)
- bool **getDisplayButtonBar** ()
- void **setShowTime** (bool pValue)
- bool **getShowTime** ()
- void **setVertSliceMarkupColor** (QColor pValue)
- QColor **getVertSliceMarkupColor** ()
- void **setHozSliceMarkupColor** (QColor pValue)
- QColor **getHozSliceMarkupColor** ()
- void **setProfileMarkupColor** (QColor pValue)
- QColor **getProfileMarkupColor** ()
- void **setAreaMarkupColor** (QColor pValue)
- QColor **getAreaMarkupColor** ()
- void **setTargetMarkupColor** (QColor pValue)
- QColor **getTargetMarkupColor** ()
- void **setBeamMarkupColor** (QColor pValue)
- QColor **getBeamMarkupColor** ()
- void **setTimeMarkupColor** (QColor pValue)
- QColor **getTimeMarkupColor** ()
- void **setDisplayCursorPixelInfo** (bool displayCursorPixelInfoIn)
- bool **getDisplayCursorPixelInfo** ()
- void **setContrastReversal** (bool contrastReversalIn)
- bool **getContrastReversal** ()
- void **setEnablePan** (bool enablePanIn)
- bool **getEnablePan** ()
- void **setEnableVertSliceSelection** (bool enableVSliceSelectionIn)
- bool **getEnableVertSliceSelection** ()
- void **setEnableHozSliceSelection** (bool enableHSliceSelectionIn)
- bool **getEnableHozSliceSelection** ()
- void **setEnableAreaSelection** (bool enableAreaSelectionIn)
- bool **getEnableAreaSelection** ()
- void **setEnableProfileSelection** (bool enableProfileSelectionIn)
- bool **getEnableProfileSelection** ()

- void **setEnabledTargetSelection** (bool enableTargetSelectionIn)
- bool **getEnabledTargetSelection** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- void **setFormatOptionProperty** (FormatOptions formatOption)
- FormatOptions **getFormatOptionProperty** ()
- void **setResizeOptionProperty** (ResizeOptions resizeOption)
- ResizeOptions **getResizeOptionProperty** ()
- void **setRotationProperty** (RotationOptions rotation)
- RotationOptions **getRotationProperty** ()

### Protected Types

- enum **variableIndexes** {  
**IMAGE\_VARIABLE**, **WIDTH\_VARIABLE**, **HEIGHT\_VARIABLE**, **ROI\_X\_VARIABLE**,  
**ROI\_Y\_VARIABLE**, **ROI\_W\_VARIABLE**, **ROI\_H\_VARIABLE**, **TARGET\_X\_VARIABLE**,  
**TARGET\_Y\_VARIABLE**, **BEAM\_X\_VARIABLE**, **BEAM\_Y\_VARIABLE**, **TARGET\_-**  
**TRIGGER\_VARIABLE**,  
**CLIPPING\_ONOFF\_VARIABLE**, **CLIPPING\_LOW\_VARIABLE**, **CLIPPING\_HIGH\_-**  
**VARIABLE**, **QEIMAGE\_NUM\_VARIABLES** }

### Protected Member Functions

- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()
- QString **copyVariable** ()
- QVariant **copyData** ()
- void **paste** (QVariant v)
- void **resizeEvent** (QResizeEvent \*)

### Protected Attributes

- [QCalIntegerFormatting](#) **integerFormatting**
- **resizeOptions** **resizeOption**
- **int zoom**
- **rotationOptions** **rotation**
- **bool flipVert**
- **bool flipHoz**
- **int initialHozScrollPos**
- **int initialVertScrollPos**
- **bool displayButtonBar**

### Properties

- **QString imageVariable**
- **QString widthVariable**
- **QString heightVariable**
- **QString regionOfInterestXVariable**
- **QString regionOfInterestYVariable**
- **QString regionOfInterestWVariable**
- **QString regionOfInterestHVariable**
- **QString targetXVariable**
- **QString targetYVariable**
- **QString beamXVariable**
- **QString beamYVariable**
- **QString targetTriggerVariable**
- **QString clippingOnOffVariable**
- **QString clippingLowVariable**
- **QString clippingHighVariable**
- **QString variableSubstitutions**
- **bool variableAsToolTip**
- **bool enabled**
- **bool allowDrop**
- **bool visible**
- **unsigned int**
- **QString userLevelUserStyle**
- **QString userLevelScientistStyle**
- **QString userLevelEngineerStyle**
- **UserLevels userLevelVisibility**
- **UserLevels userLevelEnabled**
- **FormatOptions formatOption**
- **bool enableVertSliceSelection**
- **bool enableHozSliceSelection**
- **bool showTime**
- **QColor vertSliceColor**
- **QColor hozSliceColor**



- QColor **profileColor**
- QColor **areaColor**
- QColor **beamColor**
- QColor **targetColor**
- QColor **timeColor**
- ResizeOptions **resizeOption**
- RotationOptions **rotation**
- bool **verticalFlip**
- bool **horizontalFlip**
- int **initialHosScrollPos**

### 10.82.1 Member Function Documentation

10.82.1.1 void QEImage::roiClicked ( ) [slot]

! should do the above whenever ROI changes?. This function should write to a trigger PV?

10.82.1.2 void QEImage::setFormatOption ( formatOptions *formatOption* )

! why is this needed??? is formatOption used by the video widget?

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/QEImage.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/QEImage.cpp

## 10.83 QEImageManager Class Reference

### Public Member Functions

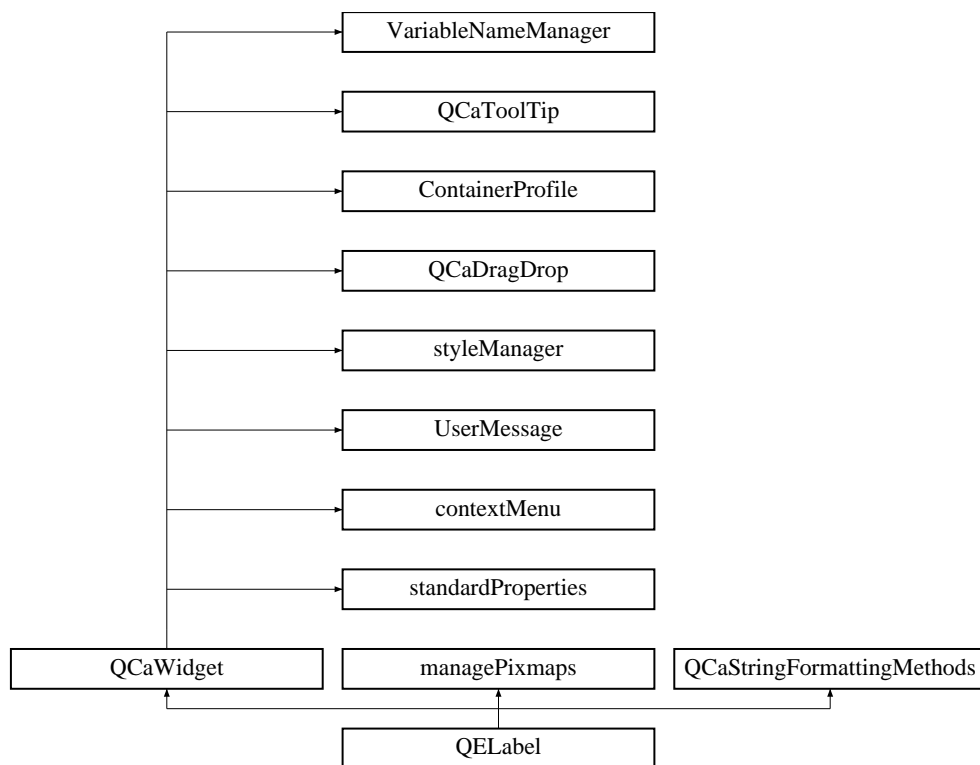
- **QEImageManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/QEImageManager.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/QEImageManager.cpp

## 10.84 QELabel Class Reference

Inheritance diagram for QELabel:



### Public Types

- enum **updateOptions** { **UPDATE\_TEXT**, **UPDATE\_PIXMAP** }
- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }
- enum **Formats** {  
**Default** = QCaStringFormatting::FORMAT\_DEFAULT, **Floating** = QCaStringFormatting::FORMAT\_FLOATING, **Integer** = QCaStringFormatting::FORMAT\_INTEGER, **UnsignedInteger** = QCaStringFormatting::FORMAT\_UNSIGNEDINTEGER,  
**Time** = QCaStringFormatting::FORMAT\_TIME, **LocalEnumeration** = QCaStringFormatting::FORMAT\_LOCAL\_ENUMERATE }
- enum **Notations** { **Fixed** = QCaStringFormatting::NOTATION\_FIXED, **Scientific** = QCaStringFormatting::NOTATION\_SCIENTIFIC, **Automatic** = QCaStringFormatting::NOTATION\_AUTOMATIC }
- enum **ArrayActions** { **Append** = QCaStringFormatting::APPEND, **Ascii** = QCaStringFormatting::ASCII, **Index** = QCaStringFormatting::INDEX }
- enum **UpdateOptions** { **Text** = QELabel::UPDATE\_TEXT, **Picture** = QELabel::UPDATE\_PIXMAP }

## Public Slots

- void **requestEnabled** (const bool &state)

## Signals

- void **dbValueChanged** (const QString &out)  
*move into Standard Properties section??*
- void **requestResend** ()

## Public Member Functions

- **QLabel** (QWidget \*parent=0)
- **QLabel** (const QString &variableName, QWidget \*parent=0)
- void **setUpdateOption** (updateOptions updateOptionIn)
- updateOptions **getUpdateOption** ()
- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- void **setFormatProperty** (Formats format)
- Formats **getFormatProperty** ()
- void **setNotationProperty** (Notations notation)
- Notations **getNotationProperty** ()
- void **setArrayActionProperty** (ArrayActions arrayAction)
- ArrayActions **getArrayActionProperty** ()
- void **setUpdateOptionProperty** (UpdateOptions updateOption)
- UpdateOptions **getUpdateOptionProperty** ()
- void **setPixmap0Property** (QPixmap pixmap)
- void **setPixmap1Property** (QPixmap pixmap)
- void **setPixmap2Property** (QPixmap pixmap)
- void **setPixmap3Property** (QPixmap pixmap)
- void **setPixmap4Property** (QPixmap pixmap)
- void **setPixmap5Property** (QPixmap pixmap)
- void **setPixmap6Property** (QPixmap pixmap)
- void **setPixmap7Property** (QPixmap pixmap)
- QPixmap **getPixmap0Property** ()
- QPixmap **getPixmap1Property** ()

- QPixmap **getPixmap2Property** ()
- QPixmap **getPixmap3Property** ()
- QPixmap **getPixmap4Property** ()
- QPixmap **getPixmap5Property** ()
- QPixmap **getPixmap6Property** ()
- QPixmap **getPixmap7Property** ()

### Protected Member Functions

- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **mousePressEvent** (QMouseEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()
- QString **copyVariable** ()
- QVariant **copyData** ()
- void **paste** (QVariant s)

### Protected Attributes

- updateOptions **updateOption**

### Properties

- QString **variable**
- QString **variableSubstitutions**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**
- int **precision**
- bool **useDbPrecision**
- bool **leadingZero**
- bool **trailingZeros**
- bool **addUnits**
- QString **localEnumeration**
- Formats **format**
- Notations **notation**

- ArrayActions **arrayAction**
- UpdateOptions **updateOption**
- QPixmap **pixmap0**
- QPixmap **pixmap1**
- QPixmap **pixmap2**
- QPixmap **pixmap3**
- QPixmap **pixmap4**
- QPixmap **pixmap5**
- QPixmap **pixmap6**
- QPixmap **pixmap7**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELabel/QELabel.h
- /home/rhydera/epicsqt/framework/widgets/QELabel/QELabel.cpp

## 10.85 QELabelManager Class Reference

### Public Member Functions

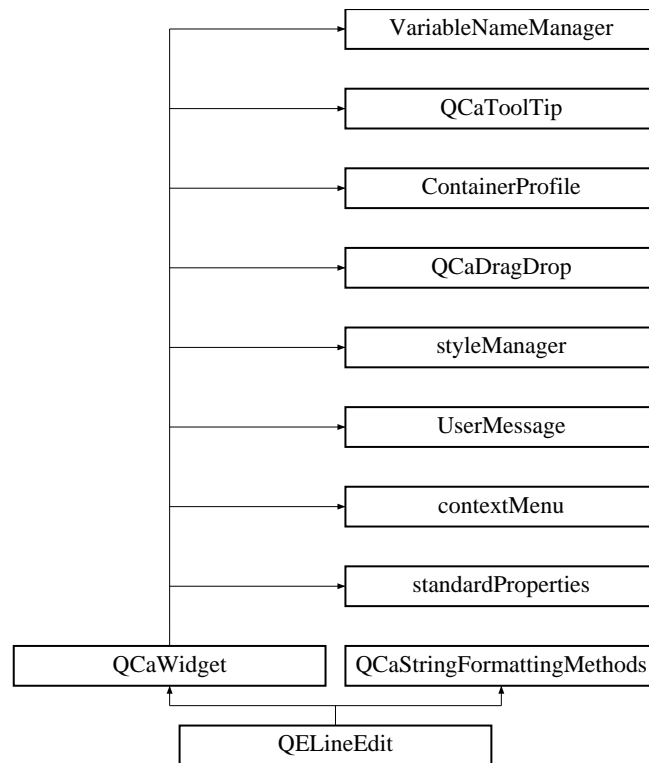
- **QELabelManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELabel/QELabelManager.h
- /home/rhydera/epicsqt/framework/widgets/QELabel/QELabelManager.cpp

## 10.86 QELineEdit Class Reference

Inheritance diagram for QELineEdit:



### Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }
- enum **Formats** {  
**Default** = QCaStringFormatting::FORMAT\_DEFAULT, **Floating** = QCaStringFormatting::FORMAT\_FLOATING, **Integer** = QCaStringFormatting::FORMAT\_INTEGER, **UnsignedInteger** = QCaStringFormatting::FORMAT\_UNSIGNEDINTEGER,  
**Time** = QCaStringFormatting::FORMAT\_TIME, **LocalEnumeration** = QCaStringFormatting::FORMAT\_LOCAL\_ENUMERATE }
- enum **Notations** { **Fixed** = QCaStringFormatting::NOTATION\_FIXED, **Scientific** = QCaStringFormatting::NOTATION\_SCIENTIFIC, **Automatic** = QCaStringFormatting::NOTATION\_AUTOMATIC }
- enum **ArrayActions** { **Append** = QCaStringFormatting::APPEND, **Ascii** = QCaStringFormatting::ASCII, **Index** = QCaStringFormatting::INDEX }

### Public Slots

- void **requestEnabled** (const bool &state)
- void **writeNow** ()

## Signals

- void **dbValueChanged** (const QString &out)
- void **userChange** (const QString &oldValue, const QString &newValue, const QString &lastValue)
- void **requestResend** ()

## Public Member Functions

- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- void **setFormatProperty** (Formats format)
- Formats **getFormatProperty** ()
- void **setNotationProperty** (Notations notation)
- Notations **getNotationProperty** ()
- void **setArrayActionProperty** (ArrayActions arrayAction)
- ArrayActions **getArrayActionProperty** ()
- **QELineEdit** (QWidget \*parent=0)
- **QELineEdit** (const QString &variableName, QWidget \*parent=0)
- void **setWriteOnLoseFocus** (bool writeOnLoseFocus)
- bool **getWriteOnLoseFocus** ()
- void **setWriteOnEnter** (bool writeOnEnter)
- bool **getWriteOnEnter** ()
- void **setWriteOnFinish** (bool writeOnFinish)
- bool **getWriteOnFinish** ()
- void **setSubscribe** (bool subscribe)
- bool **getSubscribe** ()
- void **setConfirmWrite** (bool confirmWrite)
- bool **getConfirmWrite** ()

## Protected Member Functions

- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

### Protected Attributes

- bool **localEnabled**

### Properties

- QString **variable**
- QString **variableSubstitutions**
- bool **subscribe**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**
- int **precision**
- bool **useDbPrecision**
- bool **leadingZero**
- bool **trailingZeros**
- bool **addUnits**
- QString **localEnumeration**
- Formats **format**
- Notations **notation**
- ArrayActions **arrayAction**
- bool **writeOnLoseFocus**
- bool **writeOnEnter**
- bool **writeOnFinish**
- bool **confirmWrite**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QLineEdit/QLineEdit.h
- /home/rhydera/epicsqt/framework/widgets/QLineEdit/QLineEdit.cpp

## 10.87 QLEditManager Class Reference

### Public Member Functions

- **QLEditManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const



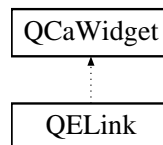
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELineEdit/QELineEditManager.h
- /home/rhydera/epicsqt/framework/widgets/QELineEdit/QELineEditManager.cpp

## 10.88 QELink Class Reference

Inheritance diagram for QELink:



### Public Types

- enum **conditions** {  
**CONDITION\_EQ**, **CONDITION\_NE**, **CONDITION\_GT**, **CONDITION\_GE**,  
**CONDITION\_LT**, **CONDITION\_LE** }
- enum **ConditionNames** {  
**Equal** = QELink::CONDITION\_EQ, **NotEqual** = QELink::CONDITION\_NE, **GreaterThan**  
= QELink::CONDITION\_GT, **GreaterThanOrEqual** = QELink::CONDITION\_GE,  
**LessThan** = QELink::CONDITION\_LT, **LessThanOrEqual** = QELink::CONDITION\_  
LE }

### Public Slots

- void **in** (const bool &in)
- void **in** (const qlonglong &in)
- void **in** (const double &in)
- void **in** (const QString &in)
- void **autoFillBackground** (const bool &enable)

## Signals

- void **out** (const bool &out)
- void **out** (const qlonglong &out)
- void **out** (const double &out)
- void **out** (const QString &out)

## Public Member Functions

- **QELink** (QWidget \*parent=0)
- void **setCondition** (conditions conditionIn)
- conditions **getCondition** ()
- void **setComparisonValue** (QString comparisonValue)
- QString **getComparisonValue** ()
- void **setSignalTrue** (bool signalTrue)
- bool **getSignalTrue** ()
- void **setSignalFalse** (bool signalFalse)
- bool **getSignalFalse** ()
- void **setOutTrueValue** (QString outTrueValue)
- QString **getOutTrueValue** ()
- void **setOutFalseValue** (QString outFalseValue)
- QString **getOutFalseValue** ()
- void **setRunVisible** (bool visibleIn)
- bool **getRunVisible** ()
- void **setConditionProperty** (ConditionNames condition)
- ConditionNames **getConditionProperty** ()

## Protected Attributes

- conditions **condition**
- QVariant **comparisonValue**
- bool **signalTrue**
- bool **signalFalse**
- QVariant **outTrueValue**
- QVariant **outFalseValue**
- bool **visible**

## Properties

- ConditionNames **condition**
- QString **comparisonValue**
- QString **outTrueValue**
- QString **outFalseValue**
- bool **runVisible**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELink/QELink.h
- /home/rhydera/epicsqt/framework/widgets/QELink/QELink.cpp

## 10.89 QELinkManager Class Reference

### Public Member Functions

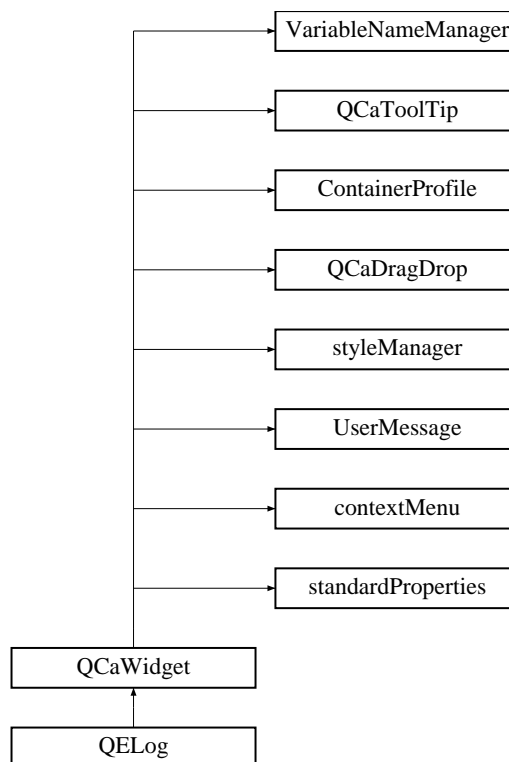
- **QELinkManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELink/QELinkManager.h
- /home/rhydera/epicsqt/framework/widgets/QELink/QELinkManager.cpp

## 10.90 QELog Class Reference

Inheritance diagram for QELog:



### Public Types

- enum **detailsLayoutProperty** { **Top** = TOP, **Bottom** = BOTTOM, **Left** = LEFT, **Right** = RIGHT }
- enum **MessageFilterOptions** { **Any** = UserMessage::MESSAGE\_FILTER\_ANY, **Match** = UserMessage::MESSAGE\_FILTER\_MATCH, **None** = UserMessage::MESSAGE\_FILTER\_NONE }

### Public Member Functions

- **QELog** (QWidget \*pParent=0)
- void **setShowColumnTime** (bool pValue)
- bool **getShowColumnTime** ()
- void **setShowColumnType** (bool pValue)
- bool **getShowColumnType** ()
- void **setShowColumnMessage** (bool pValue)
- bool **getShowColumnMessage** ()
- void **setShowMessageFilter** (bool pValue)
- bool **getShowMessageFilter** ()
- void **setShowClear** (bool pValue)
- bool **getShowClear** ()

- void **setShowSave** (bool pValue)
- bool **getShowSave** ()
- void **setDetailsLayout** (int pValue)
- int **getDetailsLayout** ()
- void **setScrollToBottom** (bool pValue)
- bool **getScrollToBottom** ()
- void **setInfoColor** (QColor pValue)
- QColor **getInfoColor** ()
- void **setWarningColor** (QColor pValue)
- QColor **getWarningColor** ()
- void **setErrorColor** (QColor pValue)
- QColor **getErrorColor** ()
- void **clearLog** ()
- void **addLog** (int pType, QString pMessage)
- void **refreshLog** ()
- void **setDetailsLayoutProperty** (detailsLayoutProperty pDetailsLayout)
- detailsLayoutProperty **getDetailsLayoutProperty** ()
- MessageFilterOptions **getMessageFormFilter** ()
- void **setMessageFormFilter** (MessageFilterOptions messageFormFilter)
- MessageFilterOptions **getMessageSourceFilter** ()
- void **setMessageSourceFilter** (MessageFilterOptions messageSourceFilter)

### Protected Attributes

- [\\_QTableWidgetLog](#) \* **qTableWidgetLog**
- QCheckBox \* **qCheckBoxInfoMessage**
- QCheckBox \* **qCheckBoxWarningMessage**
- QCheckBox \* **qCheckBoxErrorMessage**
- QPushButton \* **qPushButtonClear**
- QPushButton \* **qPushButtonSave**
- QColor **qColorInfo**
- QColor **qColorWarning**
- QColor **qColorError**
- bool **scrollToBottom**
- int **detailsLayout**

### Properties

- bool **showColumnTime**
- bool **showColumnType**
- bool **showColumnMessage**
- bool **showMessageFilter**
- bool **showClear**
- bool **showSave**
- detailsLayoutProperty **detailsLayout**

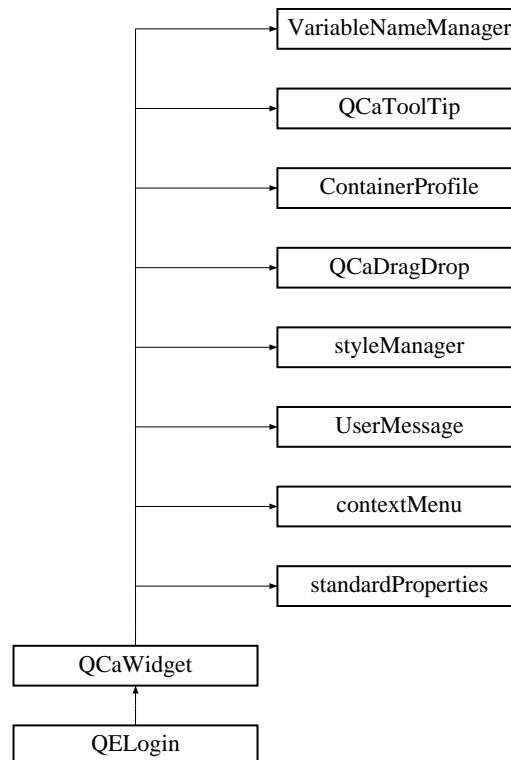
- QColor **infoColor**
- QColor **warningColor**
- QColor **errorColor**
- MessageFilterOptions **messageFormFilter**
- MessageFilterOptions **messageSourceFilter**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELog/QELog.h
- /home/rhydera/epicsqt/framework/widgets/QELog/QELog.cpp

## 10.91 QELogin Class Reference

Inheritance diagram for QELogin:



### Public Types

- enum **userTypesProperty** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }
- enum **detailsLayoutProperty** { **Top** = TOP, **Bottom** = BOTTOM, **Left** = LEFT, **Right** = RIGHT }

## Public Member Functions

- **QELogin** (QWidget \*pParent=0)
- void **setShowUserType** (bool pValue)
- bool **getShowUserType** ()
- void **setShowLogin** (bool pValue)
- bool **getShowButtonLogin** ()
- void **setShowLogout** (bool pValue)
- bool **getShowButtonLogout** ()
- void **setUserPassword** (QString pValue)
- QString **getUserPassword** ()
- void **setScientistPassword** (QString pValue)
- QString **getScientistPassword** ()
- void **setEngineerPassword** (QString pValue)
- QString **getEngineerPassword** ()
- void **setCurrentUserType** (int pValue)
- int **getCurrentUserType** ()
- void **setDetailsLayout** (int pValue)
- int **getDetailsLayout** ()
- QString **getUserTypeName** (userLevels type)
- void **logoutCurrentUserType** ()
- void **setCurrentUserTypeProperty** (userTypesProperty pUserType)
- userTypesProperty **getCurrentUserTypeProperty** ()
- void **setDetailsLayoutProperty** (detailsLayoutProperty pDetailsLayout)
- detailsLayoutProperty **getDetailsLayoutProperty** ()

## Protected Attributes

- QStack< int > **loginHistory**
- QPushButton \* **qPushButtonLogin**
- QPushButton \* **qPushButtonLogout**
- QLabel \* **qLabelUserType**
- QString **userPassword**
- QString **scientistPassword**
- QString **engineerPassword**
- int **currentUserType**
- int **detailsLayout**

## Properties

- bool **showUserType**
- bool **showLogin**
- bool **showLogout**
- userTypesProperty **currentUserType**
- detailsLayoutProperty **detailsLayout**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELogin/QELogin.h
- /home/rhydera/epicsqt/framework/widgets/QELogin/QELogin.cpp

## 10.92 QELoginManager Class Reference

### Public Member Functions

- **QELoginManager** (QObject \*pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*pParent)
- void **initialize** (QDesignerFormEditorInterface \*pCore)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELogin/QELoginManager.h
- /home/rhydera/epicsqt/framework/widgets/QELogin/QELoginManager.cpp

## 10.93 QELogManager Class Reference

### Public Member Functions

- **QELogManager** (QObject \*pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*pParent)
- void **initialize** (QDesignerFormEditorInterface \*pCore)

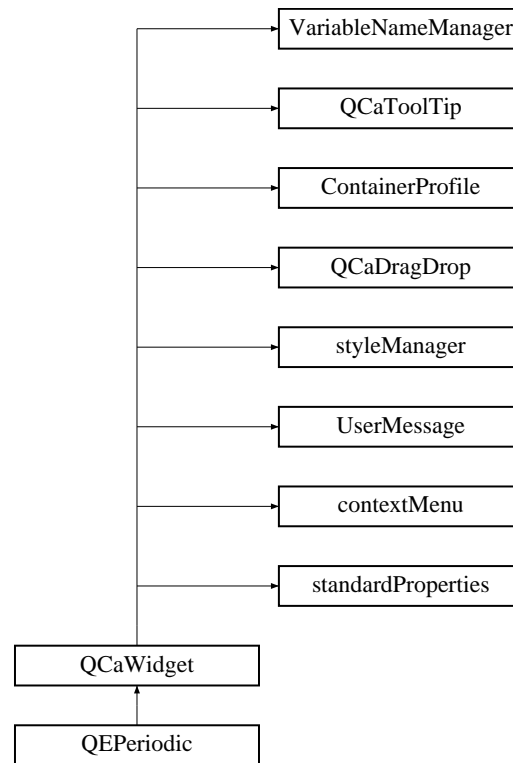
The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QELog/QELogManager.h
- /home/rhydera/epicsqt/framework/widgets/QELog/QELogManager.cpp



## 10.94 QEPeiodic Class Reference

Inheritance diagram for QEPeiodic:



### Classes

- struct [elementInfoStruct](#)
- struct [userInfoStructArray](#)

### Public Types

- enum **variableTypes** {  
**VARIABLE\_TYPE\_NUMBER**, **VARIABLE\_TYPE\_ATOMIC\_WEIGHT**, **VARIABLE\_TYPE\_MELTING\_POINT**, **VARIABLE\_TYPE\_BOILING\_POINT**,  
**VARIABLE\_TYPE\_DENSITY**, **VARIABLE\_TYPE\_GROUP**, **VARIABLE\_TYPE\_IONIZATION\_ENERGY**, **VARIABLE\_TYPE\_USER\_VALUE\_1**,  
**VARIABLE\_TYPE\_USER\_VALUE\_2** }
- enum **presentationOptions** { **PRESENTATION\_BUTTON\_AND\_LABEL**, **PRESENTATION\_BUTTON\_ONLY**, **PRESENTATION\_LABEL\_ONLY** }
- enum **UserLevels** { **User** = **USERLEVEL\_USER**, **Scientist** = **USERLEVEL\_SCIENTIST**, **Engineer** = **USERLEVEL\_ENGINEER** }

- enum **PresentationOptions** { **buttonAndLabel** = QEPeiodic::PRESENTATION\_BUTTON\_AND\_LABEL, **buttonOnly** = QEPeiodic::PRESENTATION\_BUTTON\_ONLY, **labelOnly** = QEPeiodic::PRESENTATION\_LABEL\_ONLY }
- enum **VariableTypes** {  
**Number** = QEPeiodic::VARIABLE\_TYPE\_NUMBER, **atomicWeight** = QEPeiodic::VARIABLE\_TYPE\_ATOMIC\_WEIGHT, **meltingPoint** = QEPeiodic::VARIABLE\_TYPE\_MELTING\_POINT, **boilingPoint** = QEPeiodic::VARIABLE\_TYPE\_BOILING\_POINT,  
**density** = QEPeiodic::VARIABLE\_TYPE\_DENSITY, **group** = QEPeiodic::VARIABLE\_TYPE\_GROUP, **ionizationEnergy** = QEPeiodic::VARIABLE\_TYPE\_IONIZATION\_ENERGY, **userValue1** = QEPeiodic::VARIABLE\_TYPE\_USER\_VALUE\_1,  
**userValue2** = QEPeiodic::VARIABLE\_TYPE\_USER\_VALUE\_2 }

### Public Slots

- void **requestEnabled** (const bool &state)

### Signals

- void **dbValueChanged** (const double &out)
- void **dbElementChanged** (const QString &out)
- void **requestResend** ()

### Public Member Functions

- **QEPeiodic** (QWidget \*parent=0)
- **QEPeiodic** (const QString &variableName, QWidget \*parent=0)
- void **setSubscribe** (bool subscribe)
- bool **getSubscribe** ()
- void **setPresentationOption** (presentationOptions presentationOptionIn)
- presentationOptions **getPresentationOption** ()
- void **setVariableType1** (variableTypes variableType1In)
- variableTypes **getVariableType1** ()
- void **setVariableType2** (variableTypes variableType2In)
- variableTypes **getVariableType2** ()
- void **setVariableTolerance1** (double variableTolerance1In)
- double **getVariableTolerance1** ()
- void **setVariableTolerance2** (double variableTolerance2In)
- double **getVariableTolerance2** ()
- void **setUserInfo** (QString userInfo)
- QString **getUserInfo** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)

- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- void **setPresentationOptionProperty** (PresentationOptions presentationOption)
- PresentationOptions **getPresentationOptionProperty** ()
- void **setVariableType1Property** (VariableTypes variableType)
- void **setVariableType2Property** (VariableTypes variableType)
- VariableTypes **getVariableType1Property** ()
- VariableTypes **getVariableType2Property** ()

### Public Attributes

- [userInfoStruct](#) **userInfo** [NUM\_ELEMENTS]

### Static Public Attributes

- static [elementInfoStruct](#) **elementInfo** [NUM\_ELEMENTS]

### Protected Member Functions

- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

### Protected Attributes

- [QCaFloatingFormatting](#) **floatingFormatting**
- bool **localEnabled**
- bool **allowDrop**
- variableTypes **variableType1**
- variableTypes **variableType2**
- double **variableTolerance1**
- double **variableTolerance2**

### Properties

- QString **writeButtonVariable1**
- QString **writeButtonVariable2**
- QString **readbackLabelVariable1**
- QString **readbackLabelVariable2**

- QString **variableSubstitutions**
- bool **subscribe**
- bool **variableAsToolTip**
- bool **enabled**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**
- PresentationOptions **presentationOption**
- VariableTypes **variableType1**
- VariableTypes **variableType2**
- QString **userInfo**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodic.h
- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodic.cpp

## 10.95 QEPeriodicComponentData Class Reference

### Public Attributes

- unsigned int **variableIndex1**
- double **lastData1**
- bool **haveLastData1**
- unsigned int **variableIndex2**
- double **lastData2**
- bool **haveLastData2**

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodic.h

## 10.96 QEPeriodicManager Class Reference

### Public Member Functions

- **QEPeriodicManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const

- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodicManager.h
- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodicManager.cpp

## 10.97 QEPeriodicTaskMenu Class Reference

### Public Member Functions

- **QEPeriodicTaskMenu** ([QEPeriodic](#) \*periodic, QObject \*parent)
- QAction \* **preferredEditAction** () const
- QList< QAction \* > **taskActions** () const

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodicTaskMenu.h
- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodicTaskMenuExtension.cpp

## 10.98 QEPeriodicTaskMenuFactory Class Reference

### Public Member Functions

- **QEPeriodicTaskMenuFactory** (QExtensionManager \*parent=0)

### Protected Member Functions

- QObject \* **createExtension** (QObject \*object, const QString &iid, QObject \*parent) const

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodicTaskMenu.h
- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodicTaskMenuExtension.cpp

## 10.99 QEpicsPV Class Reference

### Public Slots

- const QVariant & **set** (QVariant value, int delay=-1)
- void **setPV** (const QString &\_pvName="")

### Signals

- void **connectionChanged** (bool connected)
- void **connected** ()
- void **disconnected** ()
- void **valueChanged** (const QVariant &value)
- void **valueUpdated** (const QVariant &value)
- void **valueInitd** (const QVariant &value)

### Public Member Functions

- **QEpicsPV** (const QString &\_pvName, QObject \*parent=0)
- **QEpicsPV** (QObject \*parent=0)
- const QVariant & **get** () const
- void **needUpdated** () const
- const QVariant & **getUpdated** (int delay=defaultDelay) const
- bool **isConnected** () const
- const QStringList & **getEnum** () const
- const QString & **pv** () const
- const QVariant & **getReady** (int delay=defaultDelay) const

### Static Public Member Functions

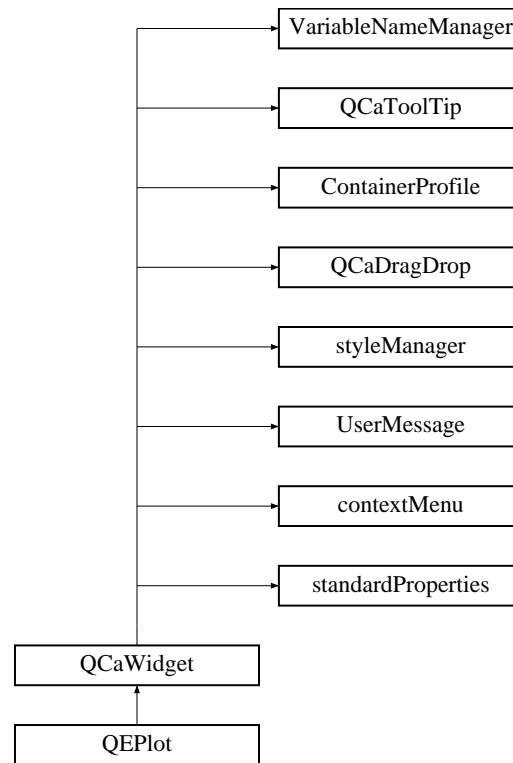
- static void **setDebugLevel** (unsigned level=0)
- static QVariant **get** (const QString &\_pvName, int delay=defaultDelay)
- static QVariant **set** (QString &\_pvName, const QVariant &value, int delay=-1)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/qepicspv.h
- /home/rhydera/epicsqt/framework/data/src/qepicspv.cpp

## 10.100 QEPlot Class Reference

Inheritance diagram for QEPlot:



### Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }
- enum **TraceStyles** { **Lines** = QwtPlotCurve::Lines, **Sticks** = QwtPlotCurve::Sticks, **Steps** = QwtPlotCurve::Steps, **Dots** = QwtPlotCurve::Dots }

### Public Slots

- void **requestEnabled** (const bool &state)

### Signals

- void **dbValueChanged** (const double &out)
- void **dbValueChanged** (const QVector< double > &out)

## Public Member Functions

- **QEPlot** (QWidget \*parent=0)
- **QEPlot** (const QString &variableName, QWidget \*parent=0)
- void **setYMin** (double yMin)
- double **getYMin** ()
- void **setYMax** (double yMax)
- double **getYMax** ()
- void **setAutoScale** (bool autoScale)
- bool **getAutoScale** ()
- void **setAxisEnableX** (bool axisEnableXIn)
- bool **getAxisEnableX** ()
- void **setAxisEnableY** (bool axisEnableYIn)
- bool **getAxisEnableY** ()
- QString **getTitle** ()
- void **setBackgroundColor** (QColor backgroundColor)
- QColor **getBackgroundColor** ()
- void **setTraceStyle** (QwtPlotCurve::CurveStyle traceStyle, const unsigned int variableIndex)
- QwtPlotCurve::CurveStyle **getTraceStyle** (const unsigned int variableIndex)
- void **setTraceColor** (QColor traceColor, const unsigned int variableIndex)
- void **setTraceColor1** (QColor traceColor)
- void **setTraceColor2** (QColor traceColor)
- void **setTraceColor3** (QColor traceColor)
- void **setTraceColor4** (QColor traceColor)
- QColor **getTraceColor** (const unsigned int variableIndex)
- QColor **getTraceColor1** ()
- QColor **getTraceColor2** ()
- QColor **getTraceColor3** ()
- QColor **getTraceColor4** ()
- void **setTraceLegend1** (QString traceLegend)
- void **setTraceLegend2** (QString traceLegend)
- void **setTraceLegend3** (QString traceLegend)
- void **setTraceLegend4** (QString traceLegend)
- QString **getTraceLegend1** ()
- QString **getTraceLegend2** ()
- QString **getTraceLegend3** ()
- QString **getTraceLegend4** ()
- void **setXUnit** (QString xUnit)
- QString **getXUnit** ()
- void **setYUnit** (QString yUnit)
- QString **getYUnit** ()
- void **setGridEnableMajorX** (bool gridEnableMajorXIn)
- void **setGridEnableMajorY** (bool gridEnableMajorYIn)
- void **setGridEnableMinorX** (bool gridEnableMinorXIn)
- void **setGridEnableMinorY** (bool gridEnableMinorYIn)
- bool **getGridEnableMajorX** ()



- bool **getGridEnableMajorY** ()
- bool **getGridEnableMinorX** ()
- bool **getGridEnableMinorY** ()
- void **setGridMajorColor** (QColor gridMajorColorIn)
- void **setGridMinorColor** (QColor gridMinorColorIn)
- QColor **getGridMajorColor** ()
- QColor **getGridMinorColor** ()
- void **setXStart** (double xStart)
- double **getXStart** ()
- void **setXIncrement** (double xIncrement)
- double **getXIncrement** ()
- void **setTimeSpan** (unsigned int timeSpan)
- unsigned int **getTimeSpan** ()
- void **setTickRate** (unsigned int tickRate)
- unsigned int **getTickRate** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- void **setTraceStyle1** (TraceStyles traceStyle)
- void **setTraceStyle2** (TraceStyles traceStyle)
- void **setTraceStyle3** (TraceStyles traceStyle)
- void **setTraceStyle4** (TraceStyles traceStyle)
- TraceStyles **getTraceStyle1** ()
- TraceStyles **getTraceStyle2** ()
- TraceStyles **getTraceStyle3** ()
- TraceStyles **getTraceStyle4** ()

### Protected Member Functions

- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **mousePressEvent** (QMouseEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

### Protected Attributes

- [QCaFloatingFormatting](#) **floatingFormatting**
- bool **localEnabled**
- bool **allowDrop**

## Properties

- QString **variable1**
- QString **variable2**
- QString **variable3**
- QString **variable4**
- QString **variableSubstitutions**
- bool **variableAsToolTip**
- bool **enabled**
- bool **visible**
- unsigned **int**
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**
- QColor **traceColor1**
- QColor **traceColor2**
- QColor **traceColor3**
- QColor **traceColor4**
- TraceStyles **traceStyle1**
- TraceStyles **traceStyle2**
- TraceStyles **traceStyle3**
- TraceStyles **traceStyle4**
- QString **traceLegend1**
- QString **traceLegend2**
- QString **traceLegend3**
- QString **traceLegend4**
- QString **title**
- QColor **backgroundColor**
- QString **xUnit**
- QString **yUnit**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPlot/QEPlot.h
- /home/rhydera/epicsqt/framework/widgets/QEPlot/QEPlot.cpp

## 10.101 QEPlotManager Class Reference

### Public Member Functions

- **QEPlotManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const

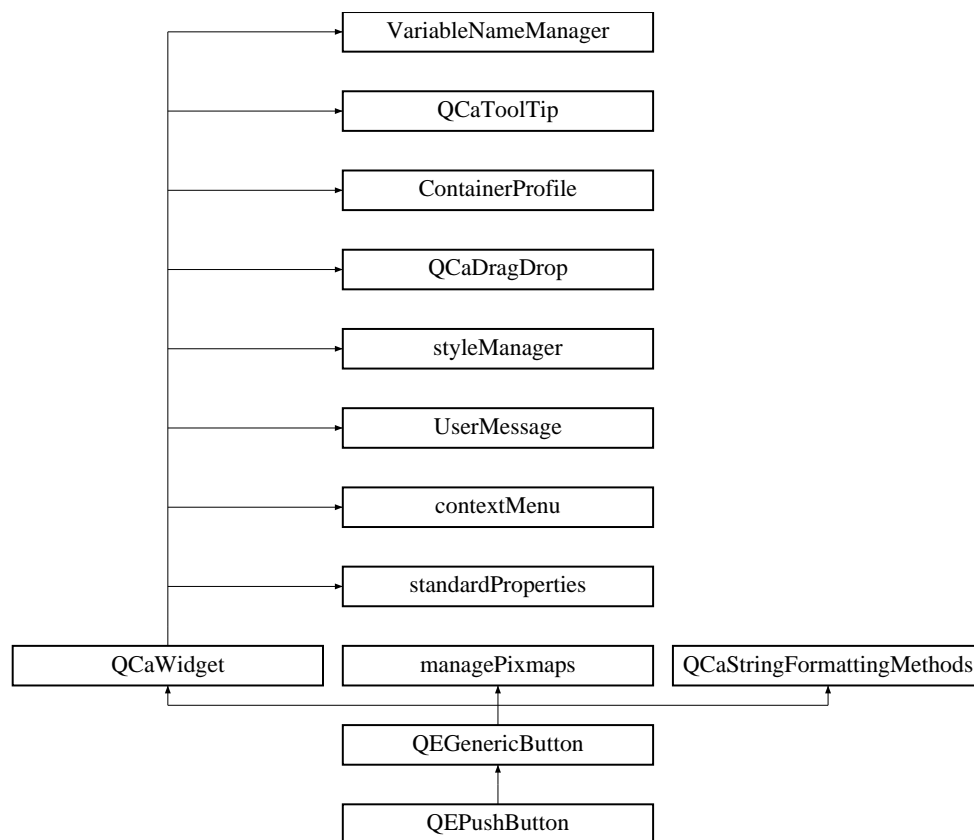
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPlot/QEPlotManager.h
- /home/rhydera/epicsqt/framework/widgets/QEPlot/QEPlotManager.cpp

## 10.102 QEPushButton Class Reference

Inheritance diagram for QEPushButton:



## Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }
- enum **UpdateOptions** { **Text** = QEPushButton::UPDATE\_TEXT, **Icon** = QEPushButton::UPDATE\_ICON, **TextAndIcon** = QEPushButton::UPDATE\_TEXT\_AND\_ICON, **State** = QEPushButton::UPDATE\_STATE }
- enum **Formats** {  
**Default** = QCaStringFormatting::FORMAT\_DEFAULT, **Floating** = QCaStringFormatting::FORMAT\_FLOATING, **Integer** = QCaStringFormatting::FORMAT\_INTEGER, **UnsignedInteger** = QCaStringFormatting::FORMAT\_UNSIGNEDINTEGER,  
**Time** = QCaStringFormatting::FORMAT\_TIME, **LocalEnumeration** = QCaStringFormatting::FORMAT\_LOCAL\_ENUMERATE }
- enum **Notations** { **Fixed** = QCaStringFormatting::NOTATION\_FIXED, **Scientific** = QCaStringFormatting::NOTATION\_SCIENTIFIC, **Automatic** = QCaStringFormatting::NOTATION\_AUTOMATIC }
- enum **CreationOptionNames** { **Open** = QEForm::CREATION\_OPTION\_OPEN, **NewTab** = QEForm::CREATION\_OPTION\_NEW\_TAB, **NewWindow** = QEForm::CREATION\_OPTION\_NEW\_WINDOW }

## Public Slots

- void **launchGui** (QString guiName, QEForm::creationOptions creationOption)
- void **requestEnabled** (const bool &state)
- void **onGeneralMessage** (QString message)  
*move into Standard Properties section??*

## Signals

- void **dbValueChanged** (const QString &out)
- void **newGui** (QString guiName, QEForm::creationOptions creationOption)
- void **requestResend** ()

## Public Member Functions

- **QEPushButton** (QWidget \*parent=0)
- **QEPushButton** (const QString &variableName, QWidget \*parent=0)
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()

- void **setUserLevelEnabledProperty** (UserLevels level)
- void **setUpdateOptionProperty** (UpdateOptions updateOption)
- UpdateOptions **getUpdateOptionProperty** ()
- void **setPixmap0Property** (QPixmap pixmap)
- void **setPixmap1Property** (QPixmap pixmap)
- void **setPixmap2Property** (QPixmap pixmap)
- void **setPixmap3Property** (QPixmap pixmap)
- void **setPixmap4Property** (QPixmap pixmap)
- void **setPixmap5Property** (QPixmap pixmap)
- void **setPixmap6Property** (QPixmap pixmap)
- void **setPixmap7Property** (QPixmap pixmap)
- QPixmap **getPixmap0Property** ()
- QPixmap **getPixmap1Property** ()
- QPixmap **getPixmap2Property** ()
- QPixmap **getPixmap3Property** ()
- QPixmap **getPixmap4Property** ()
- QPixmap **getPixmap5Property** ()
- QPixmap **getPixmap6Property** ()
- QPixmap **getPixmap7Property** ()
- void **setFormatProperty** (Formats format)
- Formats **getFormatProperty** ()
- void **setNotationProperty** (Notations notation)
- Notations **getNotationProperty** ()
- void **setCreationOptionProperty** (CreationOptionNames creationOptionIn)
- CreationOptionNames **getCreationOptionProperty** ()

### Protected Member Functions

- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

### Properties

- QString **variable**
- QString **altReadbackVariable**
- QString **variableSubstitutions**
- bool **subscribe**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**

- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**
- UpdateOptions **updateOption**
- QPixmap **pixmap0**
- QPixmap **pixmap1**
- QPixmap **pixmap2**
- QPixmap **pixmap3**
- QPixmap **pixmap4**
- QPixmap **pixmap5**
- QPixmap **pixmap6**
- QPixmap **pixmap7**
- bool **useDbPrecision**
- bool **leadingZero**
- bool **trailingZeros**
- bool **addUnits**
- QString **localEnumeration**
- Qt::Alignment **alignment**
- Formats **format**
- Notations **notation**
- QString **password**
- bool **writeOnPress**
- bool **writeOnRelease**
- bool **writeOnClick**
- QString **pressText**
- QString **releaseText**
- QString **clickText**
- QString **clickCheckedText**
- QString **labelText**
- QString **program**
- QStringList **arguments**
- QString **guiFile**
- CreationOptionNames **creationOption**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEButton/QEPushButton.h
- /home/rhydera/epicsqt/framework/widgets/QEButton/QEPushButton.cpp

## 10.103 QEPushButtonManager Class Reference

### Public Member Functions

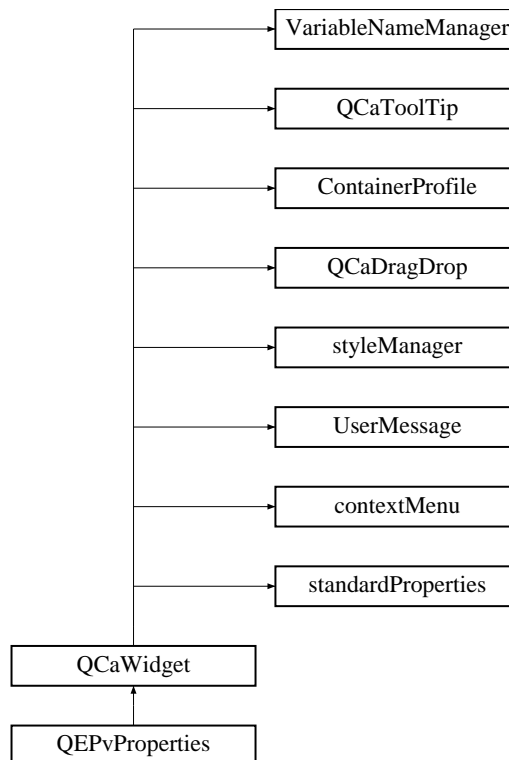
- **QEPushButtonManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEButton/QEPushButtonManager.h
- /home/rhydera/epicsqt/framework/widgets/QEButton/QEPushButtonManager.cpp

## 10.104 QEPvProperties Class Reference

Inheritance diagram for QEPvProperties:



## Classes

- struct **WidgetHolder**

## Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

## Public Slots

- void **requestEnabled** (const bool &state)

## Signals

- void **setCurrentBoxIndex** (int index)

## Public Member Functions

- void **setVariableNameProperty** (QString variableName)



- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- **QEPvProperties** (QWidget \*parent=0)
- **QEPvProperties** (const QString &variableName, QWidget \*parent=0)
- QSize **sizeHint** () const
- void **establishConnection** (unsigned int variableIndex)
- void **updateToolTip** (const QString &tip)

### Protected Member Functions

- void **setup** ()
- [qcaobject::QCaObject](#) \* **createQcalitem** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **mousePressEvent** (QMouseEvent \*event)
- QString **copyVariable** ()
- QVariant **copyData** ()
- void **paste** (QVariant s)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

### Properties

- QString **variable**
- QString **variableSubstitutions**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**

### 10.104.1 Member Function Documentation

#### 10.104.1.1 QVariant QEPvProperties::copyData ( ) [protected, virtual]

built a list of field/values

Reimplemented from [contextMenu](#).

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPvProperties/QEPvProperties.h
- /home/rhydera/epicsqt/framework/widgets/QEPvProperties/QEPvProperties.cpp

## 10.105 QEPvPropertiesManager Class Reference

### Public Member Functions

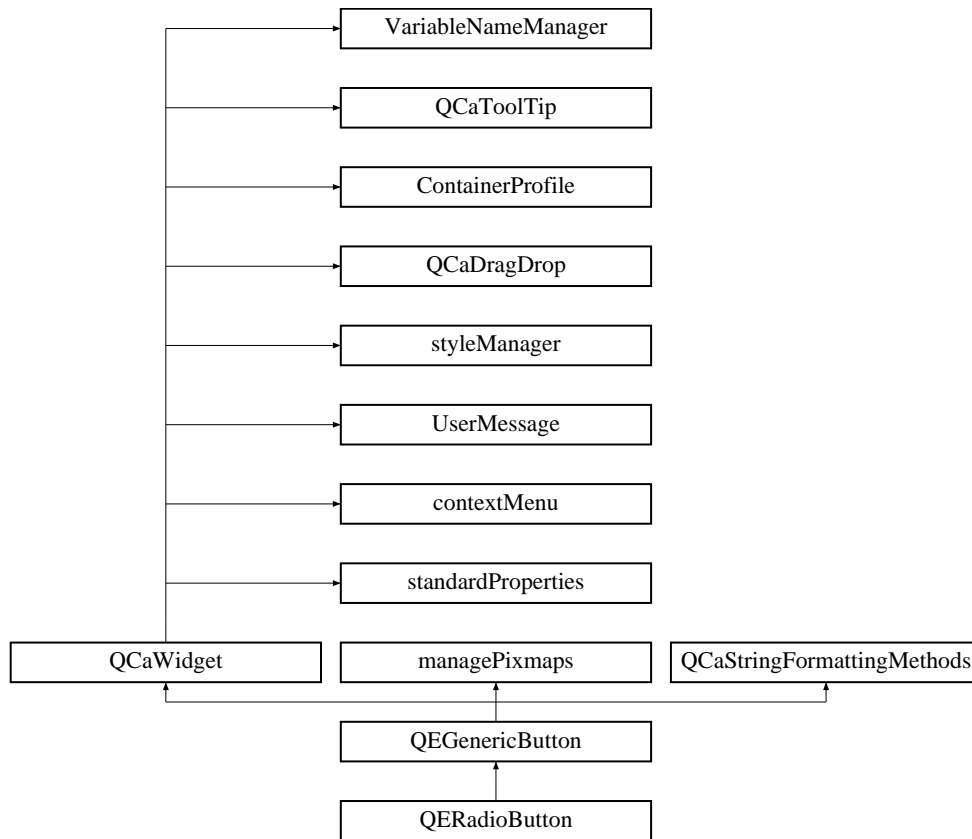
- **QEPvPropertiesManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEPvProperties/QEPvPropertiesManager.h
- /home/rhydera/epicsqt/framework/widgets/QEPvProperties/QEPvPropertiesManager.cpp

## 10.106 QERadioButton Class Reference

Inheritance diagram for QERadioButton:



## Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }
- enum **UpdateOptions** { **Text** = QERadioButton::UPDATE\_TEXT, **Icon** = QERadioButton::UPDATE\_ICON, **TextAndIcon** = QERadioButton::UPDATE\_TEXT\_AND\_ICON, **State** = QERadioButton::UPDATE\_STATE }
- enum **Formats** {  
**Default** = QCaStringFormatting::FORMAT\_DEFAULT, **Floating** = QCaStringFormatting::FORMAT\_FLOATING, **Integer** = QCaStringFormatting::FORMAT\_INTEGER, **UnsignedInteger** = QCaStringFormatting::FORMAT\_UNSIGNEDINTEGER,  
**Time** = QCaStringFormatting::FORMAT\_TIME }
- enum **Notations** { **Fixed** = QCaStringFormatting::NOTATION\_FIXED, **Scientific** = QCaStringFormatting::NOTATION\_SCIENTIFIC, **Automatic** = QCaStringFormatting::NOTATION\_AUTOMATIC }
- enum **CreationOptionNames** { **Open** = QForm::CREATION\_OPTION\_OPEN, **NewTab** = QForm::CREATION\_OPTION\_NEW\_TAB, **NewWindow** = QForm::CREATION\_OPTION\_NEW\_WINDOW }

## Public Slots

- void **launchGui** (QString guiName, QForm::creationOptions creationOption)
- void **requestEnabled** (const bool &state)
- void **onGeneralMessage** (QString message)  
*move into Standard Properties section??*

## Signals

- void **dbValueChanged** (const QString &out)
- void **newGui** (QString guiName, QForm::creationOptions creationOption)
- void **requestResend** ()

## Public Member Functions

- **QERadioButton** (QWidget \*parent=0)
- **QERadioButton** (const QString &variableName, QWidget \*parent=0)
- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- void **setUpdateOptionProperty** (UpdateOptions updateOption)
- UpdateOptions **getUpdateOptionProperty** ()
- void **setPixmap0Property** (QPixmap pixmap)
- void **setPixmap1Property** (QPixmap pixmap)
- void **setPixmap2Property** (QPixmap pixmap)
- void **setPixmap3Property** (QPixmap pixmap)
- void **setPixmap4Property** (QPixmap pixmap)
- void **setPixmap5Property** (QPixmap pixmap)
- void **setPixmap6Property** (QPixmap pixmap)
- void **setPixmap7Property** (QPixmap pixmap)
- QPixmap **getPixmap0Property** ()
- QPixmap **getPixmap1Property** ()
- QPixmap **getPixmap2Property** ()
- QPixmap **getPixmap3Property** ()
- QPixmap **getPixmap4Property** ()
- QPixmap **getPixmap5Property** ()
- QPixmap **getPixmap6Property** ()

- QPixmap **getPixmap7Property** ()
- void **setFormatProperty** (Formats format)
- Formats **getFormatProperty** ()
- void **setNotationProperty** (Notations notation)
- Notations **getNotationProperty** ()
- void **setCreationOptionProperty** (CreationOptionNames creationOptionIn)
- CreationOptionNames **getCreationOptionProperty** ()

### Protected Member Functions

- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

### Properties

- QString **variable**
- QString **variableSubstitutions**
- bool **subscribe**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**
- UpdateOptions **updateOption**
- QPixmap **pixmap0**
- QPixmap **pixmap1**
- QPixmap **pixmap2**
- QPixmap **pixmap3**
- QPixmap **pixmap4**
- QPixmap **pixmap5**
- QPixmap **pixmap6**
- QPixmap **pixmap7**
- bool **useDbPrecision**
- bool **leadingZero**
- bool **trailingZeros**
- bool **addUnits**
- Qt::Alignment **alignment**
- Formats **format**

- Notations **notation**
- QString **password**
- bool **writeOnPress**
- bool **writeOnRelease**
- bool **writeOnClick**
- QString **pressText**
- QString **releaseText**
- QString **clickText**
- QString **clickCheckedText**
- QString **labelText**
- QString **program**
- QStringList **arguments**
- QString **guiFile**
- CreationOptionNames **creationOption**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEButton/QRadioButton.h
- /home/rhydera/epicsqt/framework/widgets/QEButton/QRadioButton.cpp

## 10.107 QERadioButtonManager Class Reference

### Public Member Functions

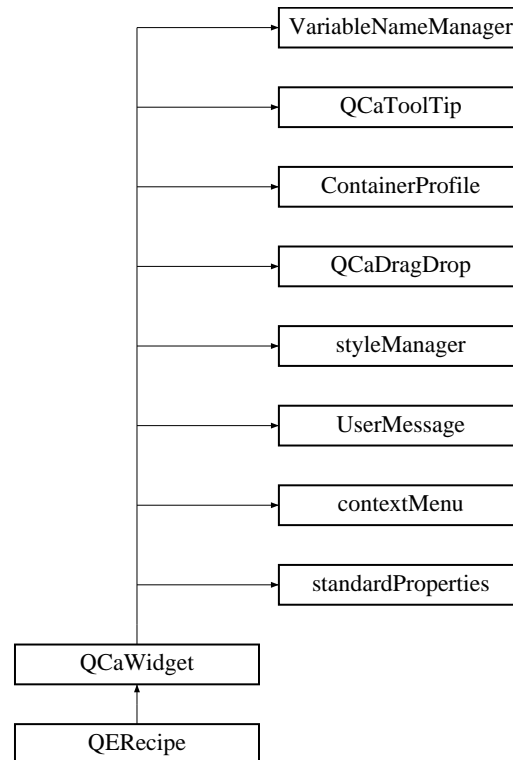
- **QERadioButtonManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEButton/QRadioButtonManager.h
- /home/rhydera/epicsqt/framework/widgets/QEButton/QRadioButtonManager.cpp

## 10.108 QERecipe Class Reference

Inheritance diagram for QERecipe:



### Public Types

- enum **configurationTypesProperty** { **File** = FROM\_FILE, **Text** = FROM\_TEXT }
- enum **detailsLayoutProperty** { **Top** = TOP, **Bottom** = BOTTOM, **Left** = LEFT, **Right** = RIGHT }
- enum **userTypesProperty** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

### Public Member Functions

- **QERecipe** (QWidget \*pParent=0)
- void **setRecipeDescription** (QString pValue)
- QString **getRecipeDescription** ()
- void **setShowRecipeList** (bool pValue)
- bool **getShowRecipeList** ()
- void **setShowNew** (bool pValue)
- bool **getShowNew** ()

- void **setShowSave** (bool pValue)
- bool **getShowSave** ()
- void **setShowDelete** (bool pValue)
- bool **getShowDelete** ()
- void **setShowApply** (bool pValue)
- bool **getShowApply** ()
- void **setShowRead** (bool pValue)
- bool **getShowRead** ()
- void **setShowFields** (bool pValue)
- bool **getShowFields** ()
- void **setConfigurationType** (int pValue)
- int **getConfigurationType** ()
- void **setConfigurationFile** (QString pValue)
- QString **getConfigurationFile** ()
- void **setRecipeFile** (QString pValue)
- QString **getRecipeFile** ()
- void **setConfigurationText** (QString pValue)
- QString **getConfigurationText** ()
- void **setDetailsLayout** (int pValue)
- int **getDetailsLayout** ()
- void **setCurrentUserType** (int pValue)
- int **getCurrentUserType** ()
- bool **saveRecipeList** ()
- void **refreshRecipeList** ()
- void **refreshButton** ()
- void **userLevelChanged** (userLevels pValue)
- void **setConfigurationTypeProperty** (configurationTypesProperty pConfigurationType)
- configurationTypesProperty **getConfigurationTypeProperty** ()
- void **setDetailsLayoutProperty** (detailsLayoutProperty pDetailsLayout)
- detailsLayoutProperty **getDetailsLayoutProperty** ()
- void **setCurrentUserTypeProperty** (userTypesProperty pUserType)
- userTypesProperty **getCurrentUserTypeProperty** ()

### Protected Attributes

- QLabel \* **qLabelRecipeDescription**
- QComboBox \* **qComboBoxRecipeList**
- QPushButton \* **qPushButtonNew**
- QPushButton \* **qPushButtonSave**
- QPushButton \* **qPushButtonDelete**
- QPushButton \* **qPushButtonApply**
- QPushButton \* **qPushButtonRead**
- [QEConfiguredLayout](#) \* **qEConfiguredLayoutRecipeFields**
- QDomDocument **document**
- QString **recipeFile**
- QString **filename**
- int **detailsLayout**
- int **currentUserType**



## Properties

- QString **recipeDescription**
- bool **showRecipeList**
- bool **showNew**
- bool **showSave**
- bool **showDelete**
- bool **showApply**
- bool **showRead**
- bool **showFields**
- configurationTypesProperty **configurationType**
- QString **configurationFile**
- QString **configurationText**
- detailsLayoutProperty **detailsLayout**
- userTypesProperty **currentUserType**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QERecipe/QERecipe.h
- /home/rhydera/epicsqt/framework/widgets/QERecipe/QERecipe.cpp

## 10.109 QERecipeManager Class Reference

### Public Member Functions

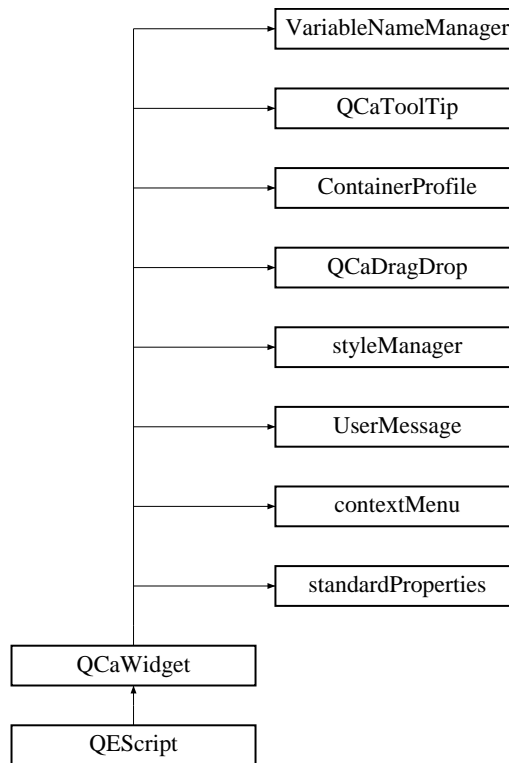
- **QERecipeManager** (QObject \*pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*pParent)
- void **initialize** (QDesignerFormEditorInterface \*pCore)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QERecipe/QERecipeManager.h
- /home/rhydera/epicsqt/framework/widgets/QERecipe/QERecipeManager.cpp

## 10.110 QEScript Class Reference

Inheritance diagram for QEScript:



### Public Types

- enum **detailsLayoutProperty** { **Top** = TOP, **Bottom** = BOTTOM, **Left** = LEFT, **Right** = RIGHT }

### Signals

- void **selected** (QString pFilename)

### Public Member Functions

- **QEScript** (QWidget \*pParent=0)
- void **setDirectoryPath** (QString pValue)
- QString **getDirectoryPath** ()
- void **setShowDirectoryPath** (bool pValue)
- bool **getShowDirectoryPath** ()
- void **setShowDirectoryBrowser** (bool pValue)

- bool **getShowDirectoryBrowser** ()
- void **setShowRefresh** (bool pValue)
- bool **getShowRefresh** ()
- void **setShowColumnTime** (bool pValue)
- bool **getShowColumnTime** ()
- void **setShowColumnSize** (bool pValue)
- bool **getShowColumnSize** ()
- void **setShowColumnFilename** (bool pValue)
- bool **getShowColumnFilename** ()
- void **setShowFileExtension** (bool pValue)
- bool **getShowFileExtension** ()
- void **setFileFilter** (QString pValue)
- QString **getFileFilter** ()
- void **setDetailsLayout** (int pValue)
- int **getDetailsLayout** ()
- void **updateTable** ()
- void **setDetailsLayoutProperty** (detailsLayoutProperty pDetailsLayout)
- detailsLayoutProperty **getDetailsLayoutProperty** ()

### Protected Attributes

- QLineEdit \* **qlineEditDirectoryPath**
- QPushButton \* **qPushButtonDirectoryBrowser**
- QPushButton \* **qPushButtonRefresh**
- [\\_QTableWidgetScript](#) \* **qTableWidgetScript**
- QString **fileFilter**
- bool **showFileExtension**
- int **detailsLayout**

### Properties

- QString **directoryPath**
- bool **showDirectoryPath**
- bool **showDirectoryBrowser**
- bool **showRefresh**
- bool **showColumnTime**
- bool **showColumnSize**
- bool **showColumnFilename**
- detailsLayoutProperty **detailsLayout**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEScript/QEScript.h
- /home/rhydera/epicsqt/framework/widgets/QEScript/QEScript.cpp

## 10.111 QEScriptManager Class Reference

### Public Member Functions

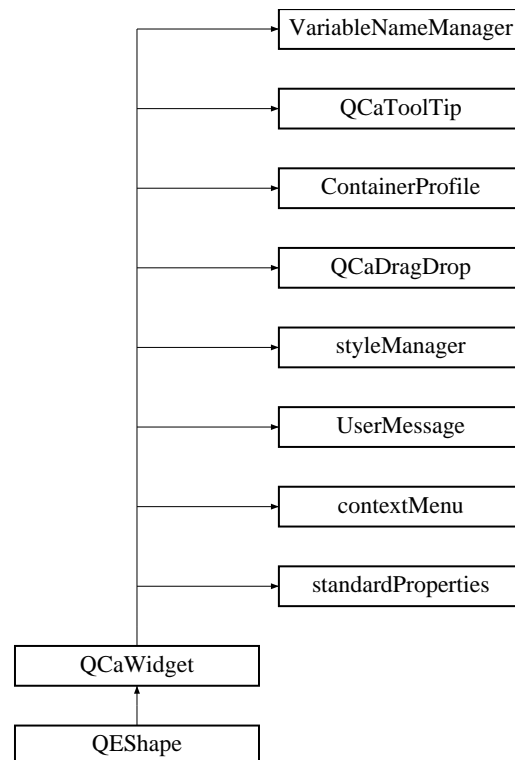
- **QEScriptManager** (QObject \*pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*pParent)
- void **initialize** (QDesignerFormEditorInterface \*pCore)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEScript/QEScriptManager.h
- /home/rhydera/epicsqt/framework/widgets/QEScript/QEScriptManager.cpp

## 10.112 QEShape Class Reference

Inheritance diagram for QEShape:



## Public Types

- enum **shapeOptions** {  
**Line, Points, Polyline, Polygon,**  
**Rect, RoundedRect, Ellipse, Arc,**  
**Chord, Pie, Path, Text,**  
**Pixmap }**
- enum **animationOptions** {  
**Width, Height, X, Y,**  
**Transperency, Rotation, ColourHue, ColourSaturation,**  
**ColourValue, ColourIndex, Penwidth }**
- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

## Public Slots

- void **requestEnabled** (const bool &state)

## Signals

- void [dbValueChanged1](#) (const qulonglong &out)  
*move into Standard Properties section??*
- void **dbValueChanged2** (const qulonglong &out)
- void **dbValueChanged3** (const qulonglong &out)
- void **dbValueChanged4** (const qulonglong &out)
- void **dbValueChanged5** (const qulonglong &out)
- void **dbValueChanged6** (const qulonglong &out)

## Public Member Functions

- **QEShape** (QWidget \*parent=0)
- **QEShape** (const QString &variableName, QWidget \*parent=0)
- void **setAnimation** (animationOptions animation, const int index)
- animationOptions **getAnimation** (const int index)
- void **setScale** (const double scale, const int index)
- double **getScale** (const int index)
- void **setOffset** (const double offset, const int index)
- double **getOffset** (const int index)
- void **setBorder** (const bool border)
- bool **getBorder** ()
- void **setFill** (const bool fill)
- bool **getFill** ()
- void **setShape** (shapeOptions shape)
- shapeOptions **getShape** ()
- void **setNumPoints** (const unsigned int numPoints)
- unsigned int **getNumPoints** ()
- void **setOriginTranslation** (const QPoint originTranslation)
- QPoint **getOriginTranslation** ()
- void **setPoint** (const QPoint point, const int index)
- QPoint **getPoint** (const int index)
- void **setColor** (const QColor color, const int index)
- QColor **getColor** (const int index)
- void **setDrawBorder** (const bool drawBorder)
- bool **getDrawBorder** ()
- void **setLineWidth** (const unsigned int lineWidth)
- unsigned int **getLineWidth** ()
- void **setStartAngle** (const double startAngle)
- double **getStartAngle** ()
- void **setRotation** (const double rotation)
- double **getRotation** ()
- void **setArcLength** (const double arcLength)
- double **getArcLength** ()
- void **setText** (const QString text)
- QString **getText** ()

- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)
- void **setAnimation1Property** (animationOptions animation)
- animationOptions **getAnimation1Property** ()
- void **setAnimation2Property** (animationOptions animation)
- animationOptions **getAnimation2Property** ()
- void **setAnimation3Property** (animationOptions animation)
- animationOptions **getAnimation3Property** ()
- void **setAnimation4Property** (animationOptions animation)
- animationOptions **getAnimation4Property** ()
- void **setAnimation5Property** (animationOptions animation)
- animationOptions **getAnimation5Property** ()
- void **setAnimation6Property** (animationOptions animation)
- animationOptions **getAnimation6Property** ()
- void **setScale1Property** (double scale)
- double **getScale1Property** ()
- void **setScale2Property** (double scale)
- double **getScale2Property** ()
- void **setScale3Property** (double scale)
- double **getScale3Property** ()
- void **setScale4Property** (double scale)
- double **getScale4Property** ()
- void **setScale5Property** (double scale)
- double **getScale5Property** ()
- void **setScale6Property** (double scale)
- double **getScale6Property** ()
- void **setOffset1Property** (double offset)
- double **getOffset1Property** ()
- void **setOffset2Property** (double offset)
- double **getOffset2Property** ()
- void **setOffset3Property** (double offset)
- double **getOffset3Property** ()
- void **setOffset4Property** (double offset)
- double **getOffset4Property** ()
- void **setOffset5Property** (double offset)
- double **getOffset5Property** ()
- void **setOffset6Property** (double offset)
- double **getOffset6Property** ()
- void **setShapeProperty** (shapeOptions shape)

- shapeOptions **getShapeProperty** ()
- void **setPoint1Property** (QPoint point)
- QPoint **getPoint1Property** ()
- void **setPoint2Property** (QPoint point)
- QPoint **getPoint2Property** ()
- void **setPoint3Property** (QPoint point)
- QPoint **getPoint3Property** ()
- void **setPoint4Property** (QPoint point)
- QPoint **getPoint4Property** ()
- void **setPoint5Property** (QPoint point)
- QPoint **getPoint5Property** ()
- void **setPoint6Property** (QPoint point)
- QPoint **getPoint6Property** ()
- void **setPoint7Property** (QPoint point)
- QPoint **getPoint7Property** ()
- void **setPoint8Property** (QPoint point)
- QPoint **getPoint8Property** ()
- void **setPoint9Property** (QPoint point)
- QPoint **getPoint9Property** ()
- void **setPoint10Property** (QPoint point)
- QPoint **getPoint10Property** ()
- void **setColor1Property** (QColor color)
- QColor **getColor1Property** ()
- void **setColor2Property** (QColor color)
- QColor **getColor2Property** ()
- void **setColor3Property** (QColor color)
- QColor **getColor3Property** ()
- void **setColor4Property** (QColor color)
- QColor **getColor4Property** ()
- void **setColor5Property** (QColor color)
- QColor **getColor5Property** ()
- void **setColor6Property** (QColor color)
- QColor **getColor6Property** ()
- void **setColor7Property** (QColor color)
- QColor **getColor7Property** ()
- void **setColor8Property** (QColor color)
- QColor **getColor8Property** ()
- void **setColor9Property** (QColor color)
- QColor **getColor9Property** ()
- void **setColor10Property** (QColor color)
- QColor **getColor10Property** ()



### Protected Member Functions

- void **colorChange** (unsigned int index)
- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **mousePressEvent** (QMouseEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

### Protected Attributes

- [QCaIntegerFormatting](#) **integerFormatting**
- double **offsets** [OFFSETS\_SIZE]
- double **scales** [SCALES\_SIZE]
- shapeOptions **shape**
- QPoint **originTranslation**
- QPoint **points** [POINTS\_SIZE]
- unsigned int **numPoints**
- QColor **colors** [COLORS\_SIZE]
- animationOptions **animations** [6]
- double **startAngle**
- double **arcLength**
- QString **text**
- double **rotation**
- unsigned int **lineWidth**
- bool **fill**
- bool **drawBorder**
- unsigned int **currentColor**

### Properties

- QString **variable1**
- QString **variable2**
- QString **variable3**
- QString **variable4**
- QString **variable5**
- QString **variable6**
- QString **variableSubstitutions**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**

- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**
- animationOptions **animation1**
- animationOptions **animation2**
- animationOptions **animation3**
- animationOptions **animation4**
- animationOptions **animation5**
- animationOptions **animation6**
- double **scale1**
- double **scale2**
- double **scale3**
- double **scale4**
- double **scale5**
- double **scale6**
- double **offset1**
- double **offset2**
- double **offset3**
- double **offset4**
- double **offset5**
- double **offset6**
- QPoint **point1**
- QPoint **point2**
- QPoint **point3**
- QPoint **point4**
- QPoint **point5**
- QPoint **point6**
- QPoint **point7**
- QPoint **point8**
- QPoint **point9**
- QPoint **point10**
- QColor **color1**
- QColor **color2**
- QColor **color3**
- QColor **color4**
- QColor **color5**
- QColor **color6**
- QColor **color7**
- QColor **color8**
- QColor **color9**
- QColor **color10**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEShape/QEShape.h
- /home/rhydera/epicsqt/framework/widgets/QEShape/QEShape.cpp

## 10.113 QEShapeManager Class Reference

### Public Member Functions

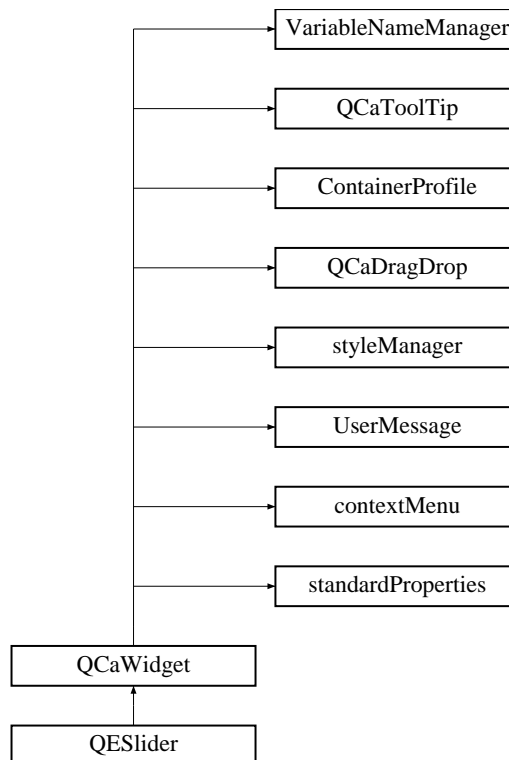
- **QEShapeManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEShape/QEShapeManager.h
- /home/rhydera/epicsqt/framework/widgets/QEShape/QEShapeManager.cpp

## 10.114 QESlider Class Reference

Inheritance diagram for QESlider:



### Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

### Public Slots

- void **requestEnabled** (const bool &state)
- void **writeNow** ()  
*move into Standard Properties section??*

### Signals

- void **dbValueChanged** (const qlonglong &out)

### Public Member Functions

- **QESlider** (QWidget \*parent=0)
- **QESlider** (const QString &variableName, QWidget \*parent=0)
- void **setWriteOnChange** (bool **writeOnChange**)

- bool **getWriteOnChange** ()
- void **setSubscribe** (bool subscribe)
- bool **getSubscribe** ()
- void **setScale** (double scaleIn)
- double **getScale** ()
- void **setOffset** (double offsetIn)
- double **getOffset** ()
- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const  
*writeOnChange is in enough widgets to make common*
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)

### Protected Member Functions

- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

### Protected Attributes

- [QCaFloatingFormatting](#) **floatingFormatting**
- bool [writeOnChange](#)  
*subscribe is in enough widgets to make common*

### Properties

- QString **variable**
- QString **variableSubstitutions**
- bool **subscribe**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int
- QString **userLevelUserStyle**

- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QESlider/QESlider.h
- /home/rhydera/epicsqt/framework/widgets/QESlider/QESlider.cpp

## 10.115 QESliderManager Class Reference

### Public Member Functions

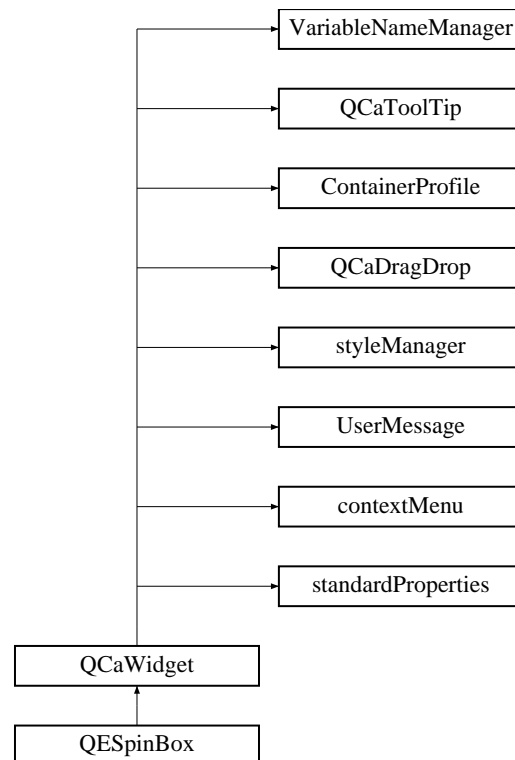
- **QESliderManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QESlider/QESliderManager.h
- /home/rhydera/epicsqt/framework/widgets/QESlider/QESliderManager.cpp

## 10.116 QESpinBox Class Reference

Inheritance diagram for QESpinBox:



## Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

## Public Slots

- void **requestEnabled** (const bool &state)
- void **writeNow** ()  
*move into Standard Properties section??*

## Signals

- void **dbValueChanged** (const double &out)
- void **userChange** (const QString &oldValue, const QString &newValue, const QString &lastValue)

## Public Member Functions

- **QESpinBox** (QWidget \*parent=0)

- **QESpinBox** (const QString &variableName, QWidget \*parent=0)
- void **setWriteOnChange** (bool writeOnChangeIn)
- bool **getWriteOnChange** ()
- void **setSubscribe** (bool subscribe)
- bool **getSubscribe** ()
- void **setAddUnitsAsSuffix** (bool addUnitsAsSuffixIn)
- bool **getAddUnitsAsSuffix** ()
- void **setUseDbPrecisionForDecimals** (bool useDbPrecisionForDecimalIn)
- bool **getUseDbPrecisionForDecimals** ()
- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()
- bool **isEnabled** () const
- void **setEnabled** (bool state)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)

### Protected Member Functions

- void **establishConnection** (unsigned int variableIndex)
- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()

### Protected Attributes

- [QCaFloatingFormatting](#) **floatingFormatting**
- bool **writeOnChange**
- bool **addUnitsAsSuffix**
- bool **useDbPrecisionForDecimal**

### Properties

- QString **variable**
- QString **variableSubstitutions**
- bool **variableAsToolTip**
- bool **enabled**
- bool **allowDrop**
- bool **visible**
- unsigned int



- QString **userLevelUserStyle**
- QString **userLevelScientistStyle**
- QString **userLevelEngineerStyle**
- UserLevels **userLevelVisibility**
- UserLevels **userLevelEnabled**
- bool **subscribe**
- bool **useDbPrecision**
- bool **addUnits**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QESpinBox/QESpinBox.h
- /home/rhydera/epicsqt/framework/widgets/QESpinBox/QESpinBox.cpp

## 10.117 QESpinBoxManager Class Reference

### Public Member Functions

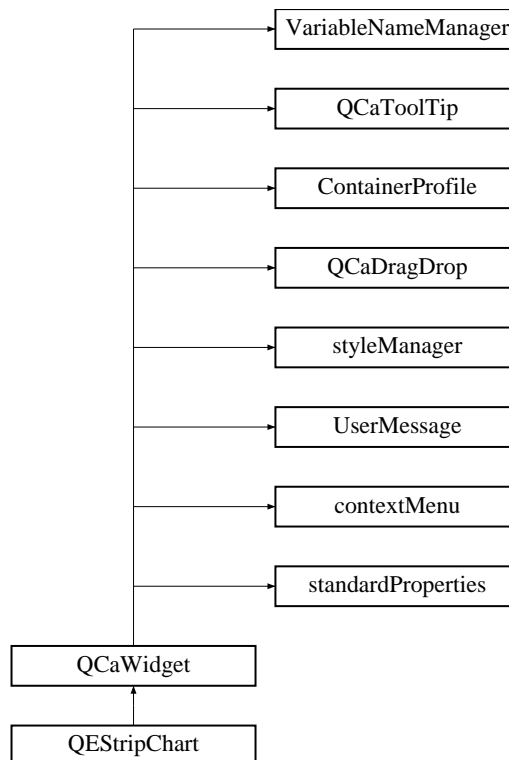
- **QESpinBoxManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QESpinBox/QESpinBoxManager.h
- /home/rhydera/epicsqt/framework/widgets/QESpinBox/QESpinBoxManager.cpp

## 10.118 QEStripChart Class Reference

Inheritance diagram for QEStripChart:



## Classes

- class [PrivateData](#)

## Public Types

- enum **Constants** { **NUMBER\_OF\_PVS** = 12 }

## Public Member Functions

- **QStripChart** (QWidget \*parent=0)
- QSize **sizeHint** () const
- QDateTime **getStartDateTime** ()
- QDateTime **getEndDateTime** ()
- void **setEndDateTime** (QDateTime endTimeIn)
- int **getDuration** ()
- void **setDuration** (int durationIn)
- double **getYMinimum** ()
- void **setYMinimum** (double yMinimumIn)
- double **getYMaximum** ()
- void **setYMaximum** (double yMaximumIn)
- void **plotData** ()

### Protected Member Functions

- void **dragEnterEvent** (QDragEnterEvent \*event)
- void **dropEvent** (QDropEvent \*event)
- void **mousePressEvent** (QMouseEvent \*event)
- void **setDrop** (QVariant drop)
- QVariant **getDrop** ()
- QString **copyVariable** ()
- QVariant **copyData** ()
- void **paste** (QVariant s)
- void **setup** ()
- [qcaobject::QCaObject](#) \* **createQcaltem** (unsigned int variableIndex)
- void **establishConnection** (unsigned int variableIndex)
- void **updateToolTip** (const QString &tip)

### Properties

- int **duration**
- double **yMinimum**
- double **yMaximum**
- QString **variable1**
- QString **variable2**
- QString **variable3**
- QString **variable4**
- QString **variable5**
- QString **variable6**
- QString **variable7**
- QString **variable8**
- QString **variable9**
- QString **variable10**
- QString **variable11**
- QString **variable12**
- QColor **colour1**
- QColor **colour2**
- QColor **colour3**
- QColor **colour4**
- QColor **colour5**
- QColor **colour6**
- QColor **colour7**
- QColor **colour8**
- QColor **colour9**
- QColor **colour10**
- QColor **colour11**
- QColor **colour12**

### Friends

- class **PrivateData**
- class [QEStripChartItem](#)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChart.h
- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChart.cpp

## 10.119 QEStripChartItem Class Reference

### Classes

- class [PrivateData](#)

### Friends

- class [QEStripChart](#)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartItem.h
- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartItem.cpp

## 10.120 QEStripChartItemDialog Class Reference

### Public Member Functions

- **QEStripChartItemDialog** (QWidget \*parent=0)
- void **setPvName** (QString pvNameIn)
- QString **getPvName** ()
- void **setColour** (QColor colourIn)
- QColor **getColour** ()
- bool **isClear** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartItemDialog.h
- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartItemDialog.cpp

## 10.121 QEStripChartManager Class Reference

### Public Member Functions

- **QEStripChartManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartManager.h
- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartManager.cpp

## 10.122 QEStripChartTimeDialog Class Reference

### Public Member Functions

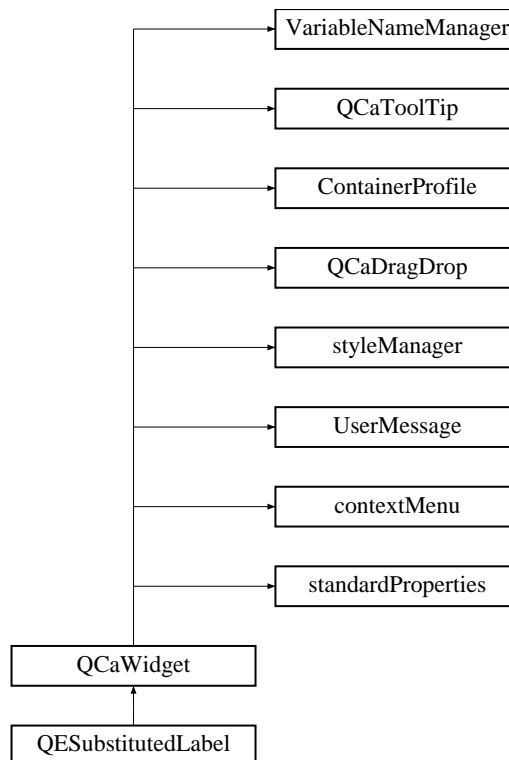
- **QEStripChartTimeDialog** (QWidget \*parent=0)
- void **setMaximumDateTime** (QDateTime datetime)
- void **setStartDateTime** (QDateTime datetime)
- QDateTime **getStartDateTime** ()
- void **setEndDateTime** (QDateTime datetime)
- QDateTime **getEndDateTime** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartTimeDialog.h
- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartTimeDialog.cpp

## 10.123 QESubstitutedLabel Class Reference

Inheritance diagram for QESubstitutedLabel:



### Public Member Functions

- **QESubstitutedLabel** (QWidget \*parent=0)
- void **establishConnection** (unsigned int variableIndex)
- void **setLabelTextProperty** (QString labelTextIn)
- QString **getLabelTextProperty** ()
- QString **getLabelTextPropertyFormat** ()
- void **setLabelTextPropertyFormat** (QString labelTextIn)
- void **setVariableNameSubstitutionsProperty** (QString variableNameSubstitutions)
- QString **getVariableNameSubstitutionsProperty** ()

### Protected Attributes

- QString **labelText**

### Properties

- QString **textSubstitutions**

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QESubstitutedLabel/QESubstitutedLabel.h
- /home/rhydera/epicsqt/framework/widgets/QESubstitutedLabel/QESubstitutedLabel.cpp

## 10.124 QESubstitutedLabelManager Class Reference

### Public Member Functions

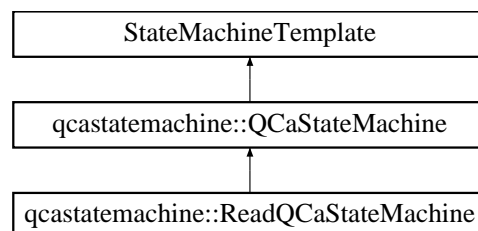
- **QESubstitutedLabelManager** (QObject \*parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget \* **createWidget** (QWidget \*parent)
- void **initialize** (QDesignerFormEditorInterface \*core)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QESubstitutedLabel/QESubstitutedLabelManager.h
- /home/rhydera/epicsqt/framework/widgets/QESubstitutedLabel/QESubstitutedLabelManager.cpp

## 10.125 qcastatemachine::ReadQCaStateMachine Class Reference

Inheritance diagram for qcastatemachine::ReadQCaStateMachine:



### Public Member Functions

- **ReadQCaStateMachine** (void \*parent)
- bool **process** (int requestedState)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaStateMachine.h
- /home/rhydera/epicsqt/framework/data/src/QCaStateMachine.cpp

## 10.126 RecordSpec Class Reference

### Public Member Functions

- **RecordSpec** (const QString theRecordType)
- QString **getRecordType** ()
- QString **getFieldName** (const int index)

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEPvProperties/QEPvProperties.cpp

## 10.127 RecordSpecList Class Reference

### Public Member Functions

- [RecordSpec](#) \* **find** (const QString recordType)

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEPvProperties/QEPvProperties.cpp

## 10.128 selectMenu Class Reference

### Public Member Functions

- **selectMenu** (QWidget \*parent=0)
- imageContextMenu::imageContextMenuOptions **getSelectOption** (const QPoint &pos)
- void **setChecked** (const int mode)
- void **setPanEnabled** (bool enablePan)
- void **setVSliceEnabled** (bool enableVSliceSelection)
- void **setHSliceEnabled** (bool enableHSliceSelection)
- void **setAreaEnabled** (bool enableAreaSelection)
- void **setProfileEnabled** (bool enableProfileSelection)
- void **setTargetEnabled** (bool enableTargetSelection)

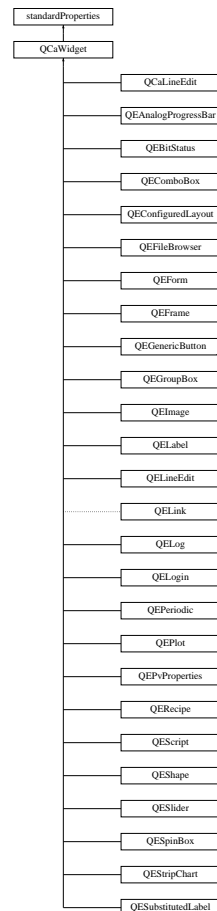
The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/selectMenu.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/selectMenu.cpp



## 10.129 standardProperties Class Reference

Inheritance diagram for standardProperties:



### Public Types

- enum **UserLevels** { **User** = USERLEVEL\_USER, **Scientist** = USERLEVEL\_SCIENTIST, **Engineer** = USERLEVEL\_ENGINEER }

### Public Member Functions

- **standardProperties** (QWidget \*ownerIn)
- **standardProperties** (QWidget \*ownerIn)
- UserLevels **getUserLevelVisibilityProperty** ()
- void **setUserLevelVisibilityProperty** (UserLevels level)
- UserLevels **getUserLevelEnabledProperty** ()
- void **setUserLevelEnabledProperty** (UserLevels level)

### Protected Member Functions

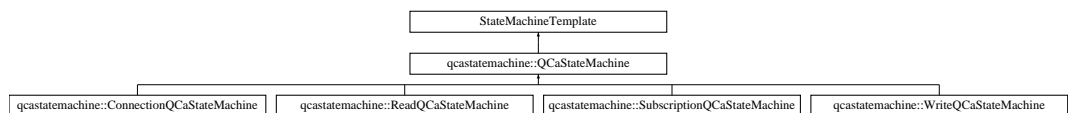
- userLevels **getUserLevelVisibility** ()
- void **setUserLevelVisibility** (userLevels level)
- userLevels **getUserLevelEnabled** ()
- void **setUserLevelEnabled** (userLevels level)
- bool **getApplicationEnabled** () const
- void **setApplicationEnabled** (bool state)
- void **setDataDisabled** (bool disable)
- void **setRunVisible** (bool visibleIn)
- bool **getRunVisible** ()
- void **checkVisibilityEnabledLevel** (userLevels level)
- userLevels **getUserLevelVisibility** ()
- void **setUserLevelVisibility** (userLevels level)
- userLevels **getUserLevelEnabled** ()
- void **setUserLevelEnabled** (userLevels level)
- bool **getApplicationEnabled** () const
- void **setApplicationEnabled** (bool state)
- void **setDataDisabled** (bool disable)
- void **setRunVisible** (bool visibleIn)
- bool **getRunVisible** ()
- void **checkVisibilityEnabledLevel** (userLevels level)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/standardProperties.h
- /home/rhydera/epicsqt/framework/widgets/include/standardPropertiesTypes.h
- /home/rhydera/epicsqt/framework/widgets/src/standardProperties.cpp

## 10.130 StateMachineTemplate Class Reference

Inheritance diagram for StateMachineTemplate:



### Public Member Functions

- virtual bool **process** (int requestedState)=0

## Public Attributes

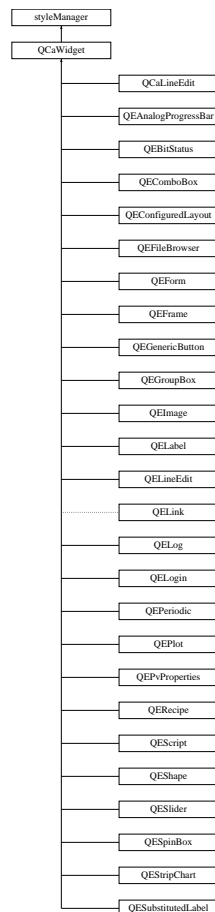
- int **currentState**
- int **requestState**

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/data/include/QCaStateMachine.h

## 10.131 styleManager Class Reference

Inheritance diagram for styleManager:



## Public Member Functions

- **styleManager** (QWidget \*ownerIn)

### Protected Member Functions

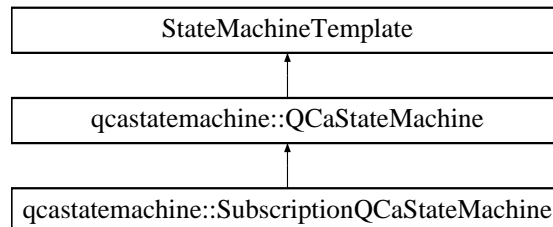
- void **setStyleUser** (QString style)
- QString **getStyleUser** ()
- void **setStyleScientist** (QString style)
- QString **getStyleScientist** ()
- void **setStyleEngineer** (QString style)
- QString **getStyleEngineer** ()
- void **updateDataStyle** (QString style)
- void **updateStatusStyle** (QString style)
- void **styleUserLevelChanged** (userLevels levelIn)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/styleManager.h
- /home/rhydera/epicsqt/framework/widgets/src/styleManager.cpp

## 10.132 qcastatemachine::SubscriptionQCaStateMachine Class Reference

Inheritance diagram for qcastatemachine::SubscriptionQCaStateMachine:



### Public Member Functions

- **SubscriptionQCaStateMachine** (void \*parent)
- bool **process** (int requestedState)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaStateMachine.h
- /home/rhydera/epicsqt/framework/data/src/QCaStateMachine.cpp

## 10.133 trace Class Reference

### Public Attributes

- QVector< [QCaDateTime](#) > **timeStamps**
- QVector< double > **xdata**
- QVector< double > **ydata**
- QwtPlotCurve \* **curve**
- QColor **color**
- QString **legend**
- bool **waveform**
- QwtPlotCurve::CurveStyle **style**

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEPlot/QEPlot.h

## 10.134 TrackRange Class Reference

### Public Member Functions

- void **clear** ()
- void **merge** (const double d)
- void **merge** (const [TrackRange](#) that)
- bool **getMinMax** (double &min, double &max)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartItem.h
- /home/rhydera/epicsqt/framework/widgets/QEStripChart/QEStripChartItem.cpp

## 10.135 userInfoStruct Class Reference

### Public Attributes

- bool **enable**
- double **value1**
- double **value2**
- QString **elementText**

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEPeriodic/QEPeriodic.h

## 10.136 QEPeiodic::userInfoStructArray Struct Reference

### Public Attributes

- [userInfoStruct](#) array [NUM\_ELEMENTS]

The documentation for this struct was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/QEPeiodic/QEPeiodic.h

## 10.137 userLevelSignal Class Reference

### Signals

- void **userChanged** (userLevels level)

### Public Member Functions

- void **setLevel** (userLevels levelIn)
- userLevels **getLevel** ()

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/ContainerProfile.h
- /home/rhydera/epicsqt/framework/widgets/src/ContainerProfile.cpp

## 10.138 userLevelSlot Class Reference

### Public Slots

- void **userChanged** (userLevels level)

### Public Member Functions

- void **setOwner** ([ContainerProfile](#) \*ownerIn)

The documentation for this class was generated from the following files:

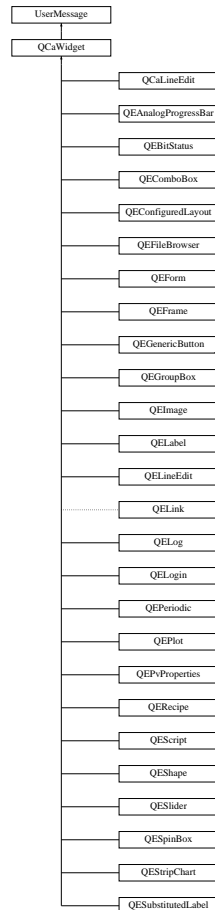
- /home/rhydera/epicsqt/framework/widgets/include/ContainerProfile.h
- /home/rhydera/epicsqt/framework/widgets/src/ContainerProfile.cpp

## 10.139 UserMessage Class Reference

! No need to export this once it is within the [QCaWidget](#) core class???

```
#include <UserMessage.h>
```

Inheritance diagram for UserMessage:



### Public Types

- enum **message\_filter\_options** {  
**MESSAGE\_FILTER\_ANY, MESSAGE\_FILTER\_MATCH, MESSAGE\_FILTER\_-**  
**NONE, MESSAGE\_FILTER\_ANY,**  
**MESSAGE\_FILTER\_MATCH, MESSAGE\_FILTER\_NONE }**
- enum **message\_filter\_options** {  
**MESSAGE\_FILTER\_ANY, MESSAGE\_FILTER\_MATCH, MESSAGE\_FILTER\_-**  
**NONE, MESSAGE\_FILTER\_ANY,**  
**MESSAGE\_FILTER\_MATCH, MESSAGE\_FILTER\_NONE }**

## Public Member Functions

- void **setSourceId** (unsigned int sourceId)
- void **setFormId** (unsigned int formId)
- void **setFormFilter** (message\_filter\_options formFilterIn)
- void **setSourceFilter** (message\_filter\_options sourceFilterIn)
- unsigned int **getSourceId** ()
- unsigned int **getFormId** ()
- message\_filter\_options **getFormFilter** ()
- message\_filter\_options **getSourceFilter** ()
- void **setChildFormId** (unsigned int)
- unsigned int **getChildFormId** ()
- unsigned int **getNextMessageFormId** ()
- void **sendMessage** (QString message, message\_types type=MESSAGE\_TYPE\_INFO)
- void **sendMessage** (QString message, QString source, message\_types type=MESSAGE\_TYPE\_INFO)
- QString **getMessageTypeName** (message\_types type)
- virtual void **newMessage** (QString, message\_types)
- void **setSourceId** (unsigned int sourceId)
- void **setFormId** (unsigned int formId)
- void **setFormFilter** (message\_filter\_options formFilterIn)
- void **setSourceFilter** (message\_filter\_options sourceFilterIn)
- unsigned int **getSourceId** ()
- unsigned int **getFormId** ()
- message\_filter\_options **getFormFilter** ()
- message\_filter\_options **getSourceFilter** ()
- void **setChildFormId** (unsigned int)
- unsigned int **getChildFormId** ()
- unsigned int **getNextMessageFormId** ()
- void **sendMessage** (QString message, message\_types type=MESSAGE\_TYPE\_INFO)
- void **sendMessage** (QString message, QString source, message\_types type=MESSAGE\_TYPE\_INFO)
- QString **getMessageTypeName** (message\_types type)
- virtual void **newMessage** (QString, message\_types)

## Friends

- class [UserMessageSlot](#)
- class [UserMessageSignal](#)



### 10.139.1 Detailed Description

! No need to export this once it is within the [QCaWidget](#) core class???

!! No need to export this once it is within the [QCaWidget](#) core class???

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/UserMessage.h
- /home/rhydera/epicsqt/framework/widgets/src/UserMessage.h
- /home/rhydera/epicsqt/framework/widgets/src/UserMessage.cpp

## 10.140 UserMessageSignal Class Reference

### Signals

- void **message** (QString msg, message\_types type, unsigned int formId, unsigned int sourceId, [UserMessage](#) \*originator)
- void **message** (QString msg, message\_types type, unsigned int formId, unsigned int sourceId, [UserMessage](#) \*originator)

### Public Member Functions

- void **sendMessage** (QString msg, message\_types type, unsigned int formId, unsigned int sourceId, [UserMessage](#) \*originator)
- void **sendMessage** (QString msg, message\_types type, unsigned int formId, unsigned int sourceId, [UserMessage](#) \*originator)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/UserMessage.h
- /home/rhydera/epicsqt/framework/widgets/src/UserMessage.h
- /home/rhydera/epicsqt/framework/widgets/src/UserMessage.cpp

## 10.141 UserMessageSlot Class Reference

### Public Slots

- void **message** (QString msg, message\_types type, unsigned int formId, unsigned int sourceId, [UserMessage](#) \*originator)
- void **message** (QString msg, message\_types type, unsigned int formId, unsigned int sourceId, [UserMessage](#) \*originator)

## Public Member Functions

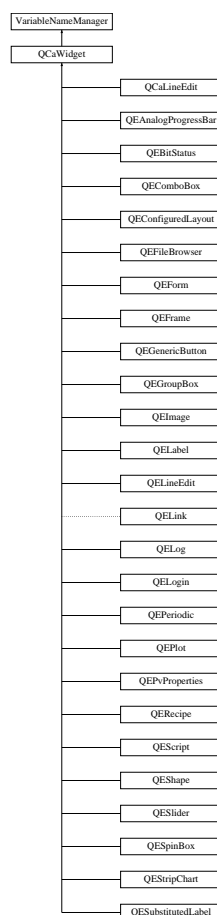
- void **setOwner** ([UserMessage](#) \*ownerIn)
- void **setOwner** ([UserMessage](#) \*ownerIn)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/UserMessage.h
- /home/rhydera/epicsqt/framework/widgets/src/UserMessage.h
- /home/rhydera/epicsqt/framework/widgets/src/UserMessage.cpp

## 10.142 VariableNameManager Class Reference

Inheritance diagram for VariableNameManager:



## Public Member Functions

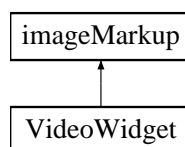
- void **variableNameManagerInitialise** (unsigned int numVariables)
- QString **getOriginalVariableName** (unsigned int variableIndex)
- QString **getVariableNameSubstitutions** ()
- QString **getSubstitutedVariableName** (unsigned int variableIndex)
- void **initialiseVariableNameSubstitutions** (const QString &substitutions)
- void **setVariableNameSubstitutionsOverride** (const QString &substitutions)
- void **setVariableName** (const QString &variableName, unsigned int variableIndex)
- void **setVariableNameSubstitutions** (const QString &substitutions)
- QString **substituteThis** (const QString string)
- void **variableNameManagerInitialise** (unsigned int numVariables)
- QString **getOriginalVariableName** (unsigned int variableIndex)  
Used to set up the number of variables required (defaults to 1 if this is not called)
- QString **getVariableNameSubstitutions** ()  
Return variable name prior to any macro substitutions. (eg, SR\$SECTOR\$V )
- QString **getSubstitutedVariableName** (unsigned int variableIndex)  
Return macro substitutions used for variable names (eg, SECTOR=01,V=PRESSURE)
- void **initialiseVariableNameSubstitutions** (const QString &substitutions)  
Return variable name after macro substitutions.
- void **setVariableNameSubstitutionsOverride** (const QString &substitutions)  
Initialise macro substitutions. May be used on creation.
- void **setVariableName** (const QString &variableName, unsigned int variableIndex)
- void **setVariableNameSubstitutions** (const QString &substitutions)  
Accept a new variable name which may include substitution keys preceeded by \$.
- QString **substituteThis** (const QString string)  
Accept a new set of macro substitutions in the form KEY1=VALUE1,KEY2=VALUE2.

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/include/VariableNameManager.h
- /home/rhydera/epicsqt/framework/widgets/src/VariableNameManager.h
- /home/rhydera/epicsqt/framework/widgets/src/VariableNameManager.cpp

## 10.143 VideoWidget Class Reference

Inheritance diagram for VideoWidget:



## Signals

- void **userSelection** (imageMarkup::markupIds mode, QPoint point1, QPoint point2)
- void **zoomInOut** (int zoomAmount)
- void **currentPixelInfo** (QPoint pos)
- void **pan** (QPoint pos)

## Public Member Functions

- [VideoWidget](#) (QWidget \*parent=0)
- void **setNewImage** (const QImage image, [QCaDateTime](#) &time)
- void **setPanning** (bool panningIn)
- bool **getPanning** ()
- QPoint **scalePoint** (QPoint pnt)
- int **scaleOrdinate** (int ord)
- QImage **getImage** ()

## Protected Member Functions

- void **paintEvent** (QPaintEvent \*)
- void **mousePressEvent** (QMouseEvent \*event)
- void **mouseReleaseEvent** (QMouseEvent \*event)
- void **mouseMoveEvent** (QMouseEvent \*event)
- void [wheelEvent](#) (QWheelEvent \*event)
- void [markupChange](#) (QImage &markups, QVector< QRect > &changedAreas)  
*Call this with a null markups image if no markups.*
- void **resizeEvent** (QResizeEvent \*event)
- void **markupSetCursor** (QCursor cursor)
- void **markupAction** (markupIds mode, QPoint point1, QPoint point2)

### 10.143.1 Constructor & Destructor Documentation

10.143.1.1 `VideoWidget::VideoWidget ( QWidget * parent = 0 )`

!required???

### 10.143.2 Member Function Documentation

10.143.2.1 `void VideoWidget::wheelEvent ( QWheelEvent * event )` [`protected`]

what if dragging image (with mouse button down) when wheel event occurs???

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/videowidget.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/videowidget.cpp

## 10.144 WidgetRef Class Reference

### Public Member Functions

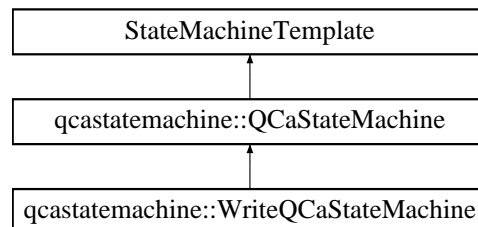
- **WidgetRef** ([QCaWidget](#) \*refIn)
- [QCaWidget](#) \* **getRef** ()

The documentation for this class was generated from the following file:

- /home/rhydera/epicsqt/framework/widgets/include/ContainerProfile.h

## 10.145 qcastatemachine::WriteQCaStateMachine Class Reference

Inheritance diagram for qcastatemachine::WriteQCaStateMachine:



### Public Member Functions

- **WriteQCaStateMachine** (void \*parent)
- bool **process** (int requestedState)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/data/include/QCaStateMachine.h
- /home/rhydera/epicsqt/framework/data/src/QCaStateMachine.cpp

## 10.146 zoomMenu Class Reference

### Public Member Functions

- **zoomMenu** (QWidget \*parent=0)
- void **enableAreaSelected** (bool enable)
- imageContextMenu::imageContextMenuOptions **getZoom** (const QPoint &pos)

The documentation for this class was generated from the following files:

- /home/rhydera/epicsqt/framework/widgets/QEImage/zoomMenu.h
- /home/rhydera/epicsqt/framework/widgets/QEImage/zoomMenu.cpp

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