

EPICS QT Framework

2.0.0

Generated by Doxygen 1.7.5

Fri Oct 26 2012 00:15:33

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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 ≥ 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>

Chapter 2

GNU General Public License

The EPICS QT Framework is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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You should have received a copy of the GNU General Public License along with the EPICS QT Framework.

If not, see "<http://www.gnu.org/licenses/>

Chapter 3

INSTALL

Chapter 4

ASgui screen shots

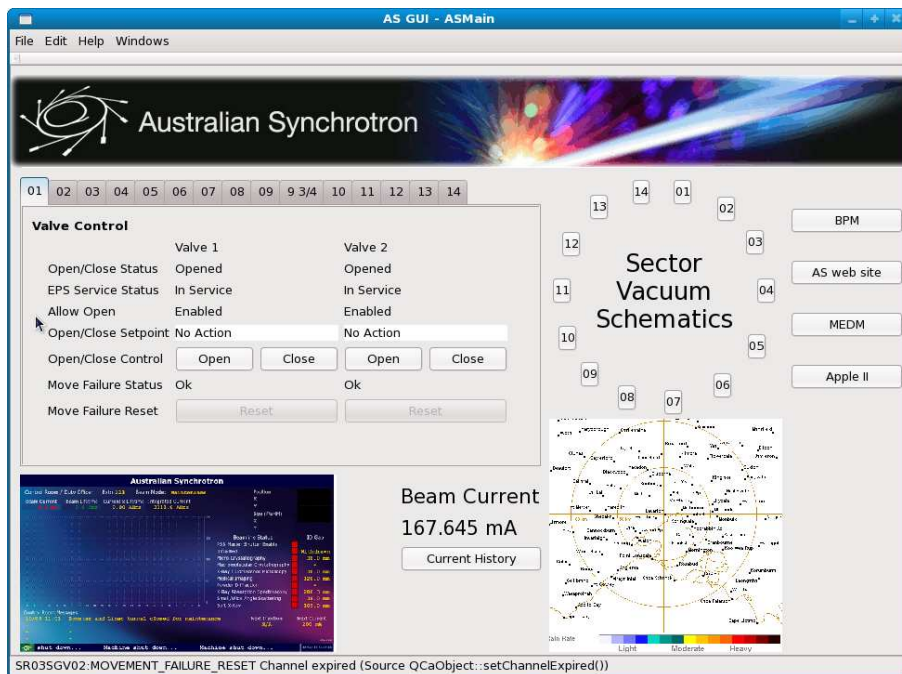


Figure 4.1: Australian Synchrotron mock up

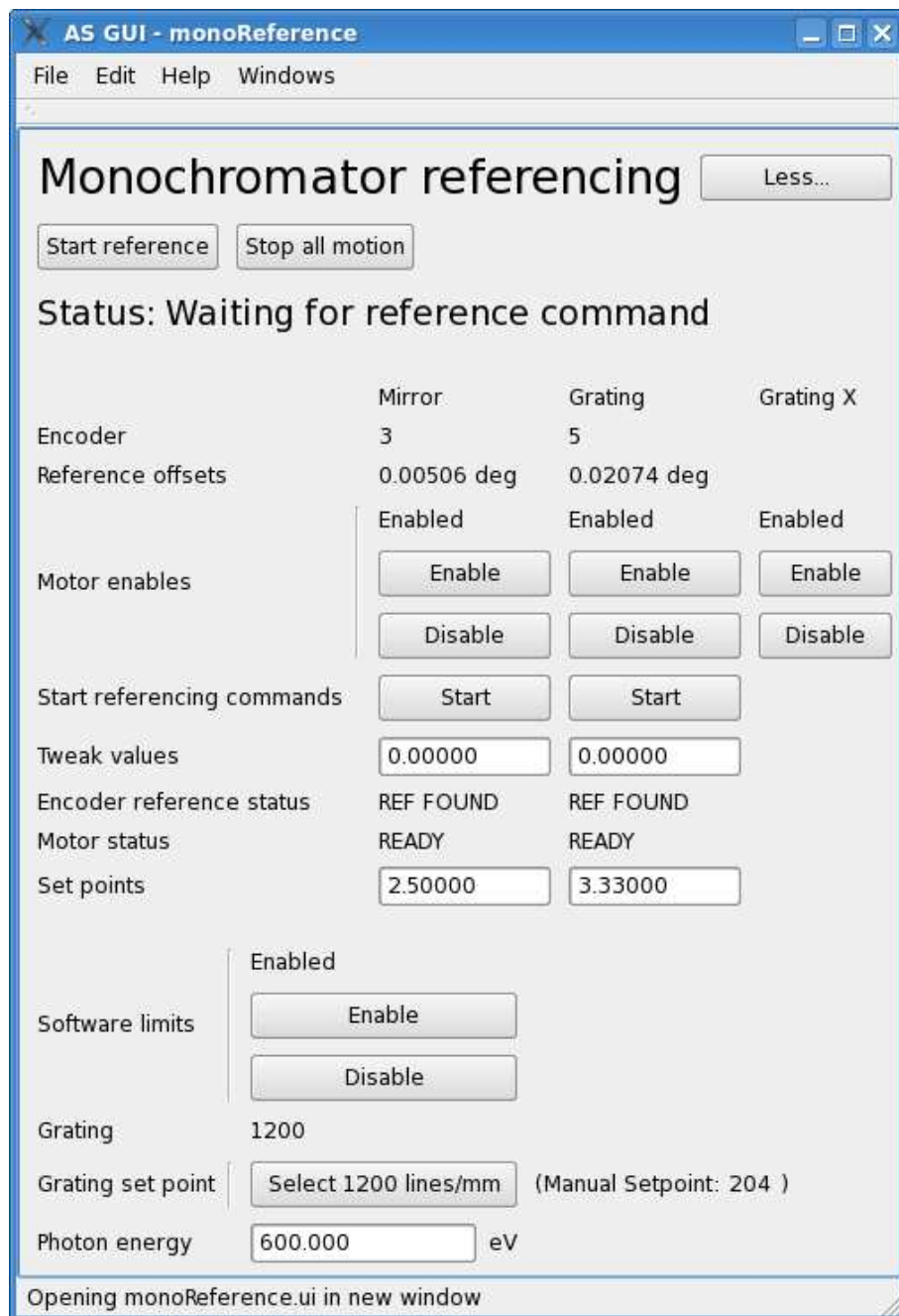


Figure 4.2: Monochromator referencing

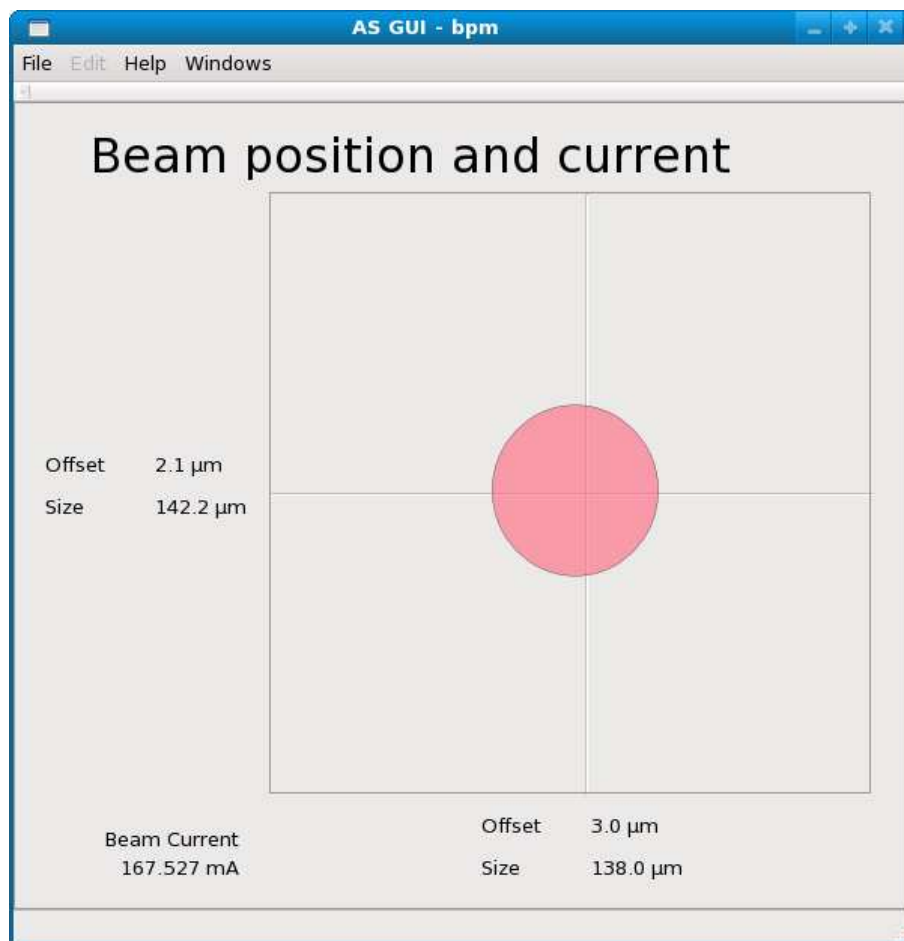


Figure 4.3: Beam position monitor

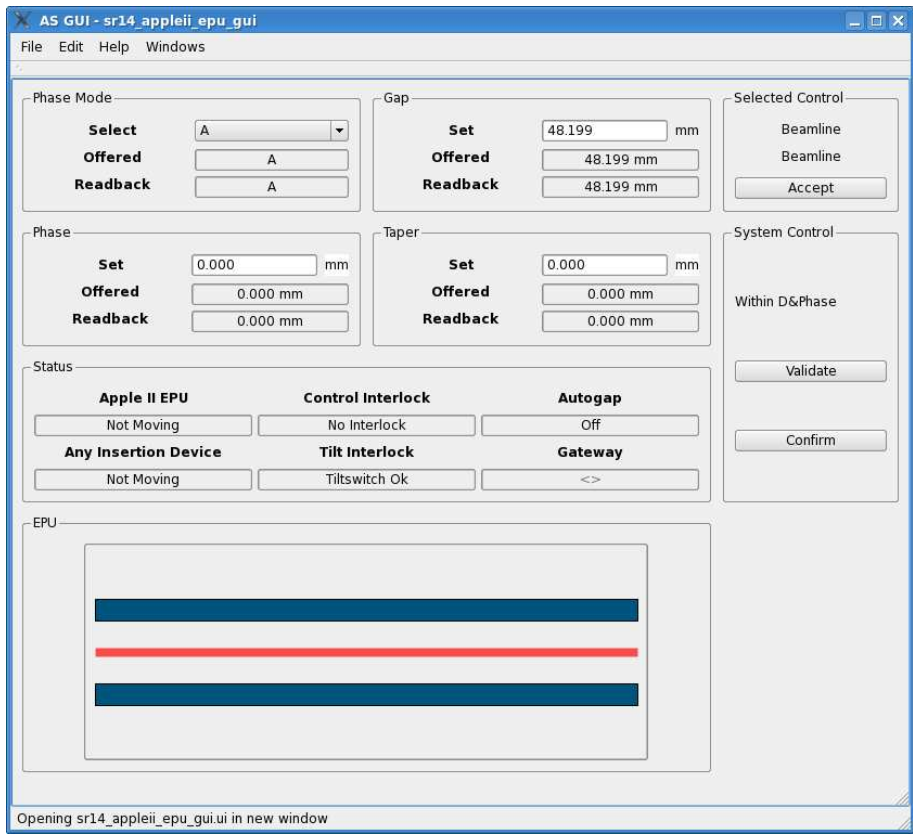


Figure 4.4: Insertion device



Figure 4.5: Injection efficiency monitor

Chapter 5

other applications using epicsqt widgets

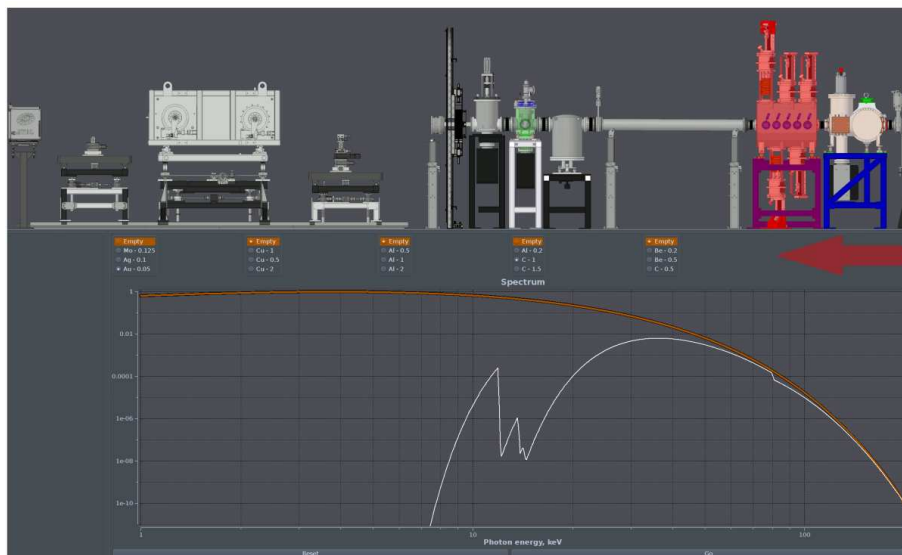


Figure 5.1: Medical Imaging beamline

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

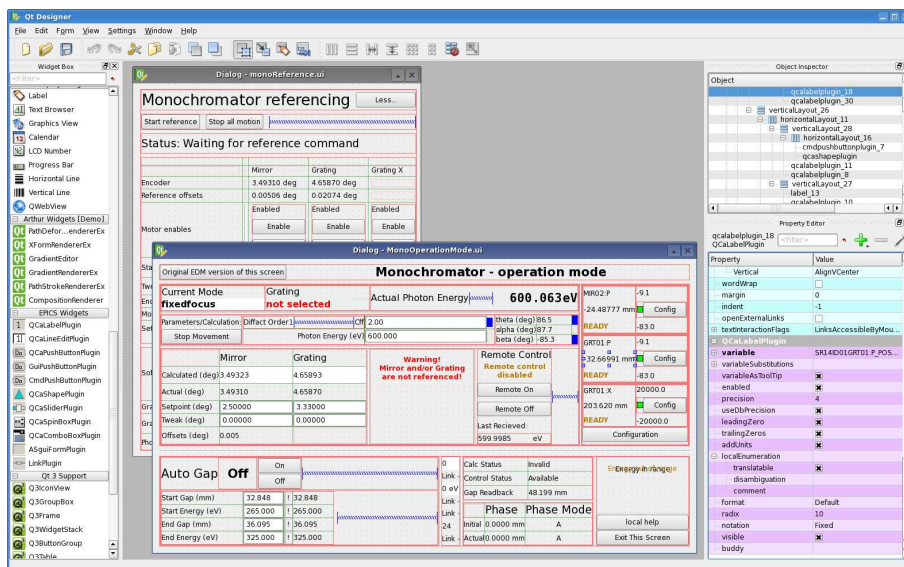


Figure 6.1: Editing multiple GUIs

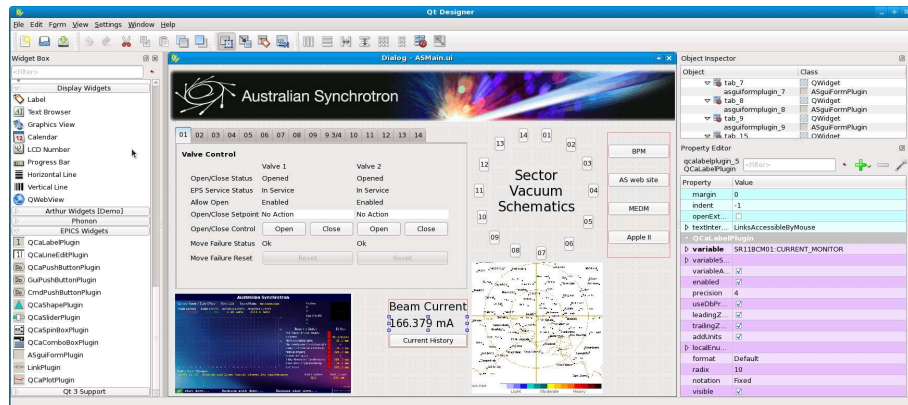


Figure 6.2: Editing a GUI

Chapter 7

Qt Creator

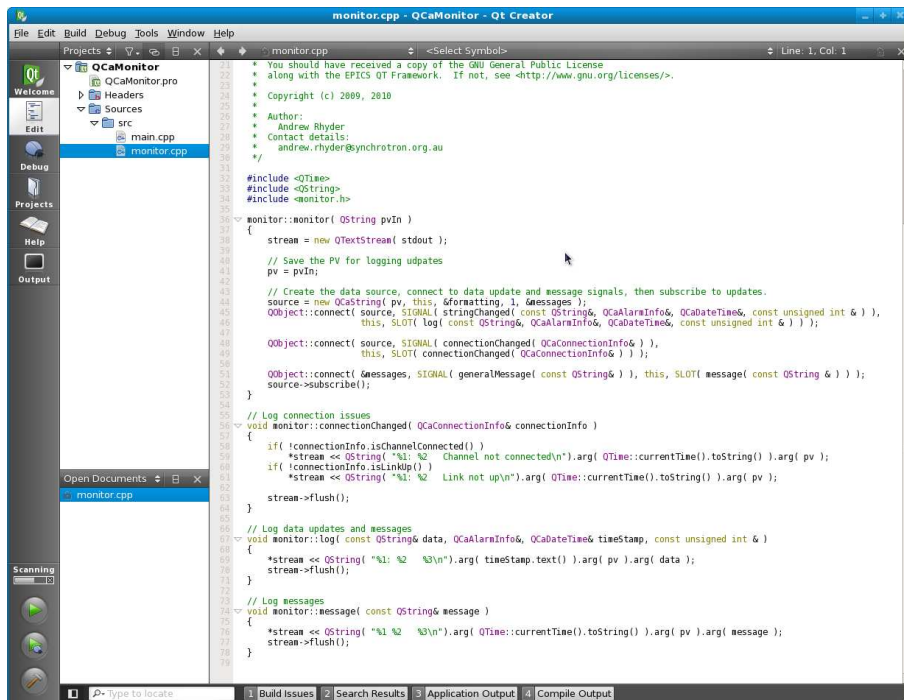


Figure 7.1: Application using epicsqt data source classes

Chapter 8

Class Index

8.1 Class Hierarchy

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

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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/andrew/epicsqt/framework/widgets/QEConfiguredLayout/QEConfigured-Layout.h

- /home/andrew/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/andrew/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QELogin/QELogin.h`
- `/home/andrew/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/andrew/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEFileBrowser/QEFileBrowser.h
- /home/andrew/epicsqt/framework/widgets/QEFileBrowser/QEFileBrowser.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/andrew/epicsqt/framework/widgets/QELog/QELog.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEScript/QEScript.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicator.h

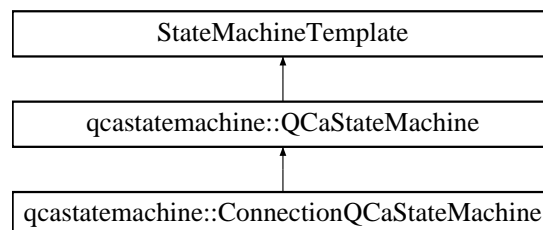
10.10 QEAnalogIndicator::BandList Class Reference

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

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

10.11 qcastatemachine::ConnectionQCaStateMachine Class Reference

Inheritance diagram for qcastatemachine::ConnectionQCaStateMachine:



Public Member Functions

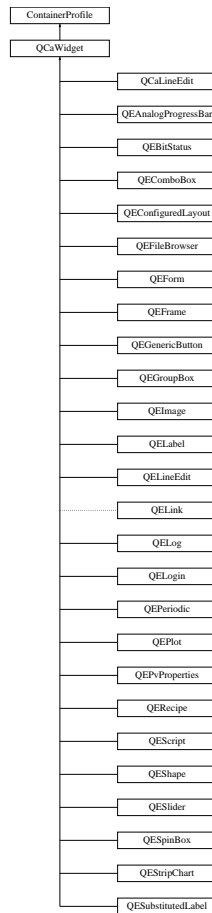
- **ConnectionQCaStateMachine** (void *parent)
- bool **process** (int requestedState)

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

- /home/andrew/epicsqt/framework/data/include/QCaStateMachine.h
- /home/andrew/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)

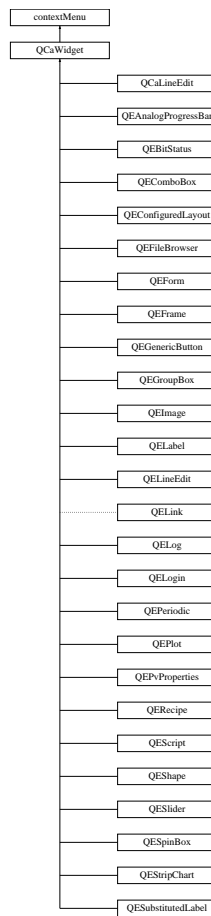
- void **updateConsumers** (QObject *guiLaunchConsumerIn)
- QObject * **replaceGuiLaunchConsumer** (QObject *newGuiLaunchConsumerIn)
- void **addMacroSubstitutions** (QString macroSubstitutionsIn)
- void **removeMacroSubstitutions** ()
- QObject * **getGuiLaunchConsumer** ()
- QString **getPath** ()
- 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/andrew/epicsqt/framework/widgets/include/ContainerProfile.h
- /home/andrew/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** }

Public Member Functions

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

10.14 contextMenuObject Class Reference

Public Slots

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

Public Member Functions

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

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

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

10.15 QEPPeriodic::elementInfoStruct Struct Reference

Public Attributes

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

Properties

- unsigned int **number**

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

- /home/andrew/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)

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

- /home/andrew/epicsqt/framework/widgets/QEImage/flipRotateMenu.h
- /home/andrew/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)

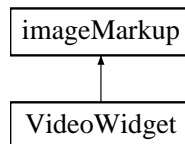
- void **addMenuItem** (const QString &title, const bool checkable, const bool checked, const imageContextMenuOptions option)
- void **addOptionMenuItem** (const QString &title, const bool checkable, const bool checked, const imageContextMenuOptions option)

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

- /home/andrew/epicsqt/framework/widgets/QEImage/imageContextMenu.h
- /home/andrew/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 **markupMousePressEvent** (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/andrew/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/andrew/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

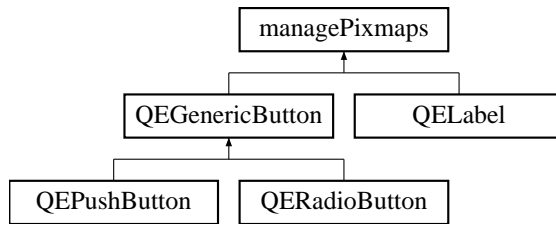
- double **dValue**
- QString **sValue**
- operations **op**
- QString **text**

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

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

10.20 managePixmaps Class Reference

Inheritance diagram for managePixmaps:



Public Member Functions

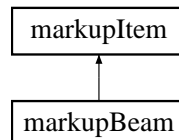
- void **setDataPixmap** (const QPixmap &Pixmap, const unsigned int index)
- QPixmap **getDataPixmap** (const unsigned int index)
- QPixmap **getDataPixmap** (const QString value)

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

- /home/andrew/epicsqt/framework/widgets/include/managePixmap.h
- /home/andrew/epicsqt/framework/widgets/src/managePixmap.cpp

10.21 markupBeam Class Reference

Inheritance diagram for markupBeam:



Public Member Functions

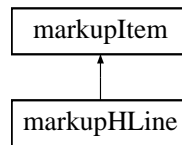
- **markupBeam** (imageMarkup *ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor *cursor)
- QPoint **origin** ()
- QPoint **getPoint1**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

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

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

10.22 markupHLine Class Reference

Inheritance diagram for markupHLine:



Public Member Functions

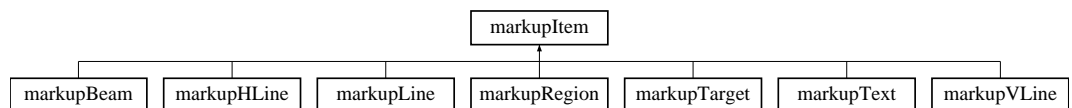
- **markupHLine** ([imageMarkup](#) *ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor *cursor)
- QPoint **origin** ()
- QPoint **getPoint1**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

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

- /home/andrew/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/andrew/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

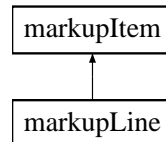
- markupHandles **activeHandle**
- isOverOptions **isOverType**
- QRect **area**
- bool **visible**
- bool **interactive**
- bool **reportOnMove**
- bool **highlighted**
- int **highlightMargin**
- QColor **color**
- [imageMarkup](#) * **owner**

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

- /home/andrew/epicsqt/framework/widgets/QImage/imageMarkup.h
- /home/andrew/epicsqt/framework/widgets/QImage/imageMarkup.cpp

10.24 markupLine Class Reference

Inheritance diagram for markupLine:



Public Member Functions

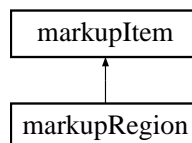
- **markupLine** ([imageMarkup](#) *ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor *cursor)
- QPoint **origin** ()
- QPoint **getPoint1**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

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

- /home/andrew/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/andrew/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)

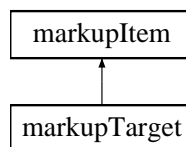
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor *cursor)
- QPoint **origin** ()
- QPoint **getPoint1** ()
- QPoint **getPoint2** ()
- QCursor **defaultCursor** ()

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

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

10.26 markupTarget Class Reference

Inheritance diagram for markupTarget:



Public Member Functions

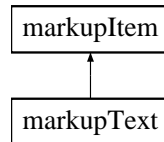
- **markupTarget** ([imageMarkup](#) *ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor *cursor)
- QPoint **origin** ()
- QPoint **getPoint1**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

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

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

10.27 markupText Class Reference

Inheritance diagram for markupText:



Public Member Functions

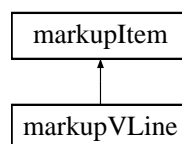
- **markupText** ([imageMarkup](#) *ownerIn, bool interactiveIn, bool reportOnMoveIn)
- void **setText** (QString textIn, bool draw)
- void **startDrawing** (QPoint pos)
- void **setArea** ()
- void **drawMarkup** (QPainter &p)
- void **moveTo** (QPoint pos)
- bool **isOver** (QPoint point, QCursor *cursor)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

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

- /home/andrew/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEImage/imageMarkup.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEPeriodic/PeriodicDialog.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEPeriodic/PeriodicElementSetupForm.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEPeriodic/PeriodicSetupDialog.h
- /home/andrew/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/andrew/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/andrew/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/andrew/epicsqt/framework/widgets/QEImage/profilePlot.h
- /home/andrew/epicsqt/framework/widgets/QEImage/profilePlot.cpp

10.35 QPushButtonSpecifications Struct Reference

Public Attributes

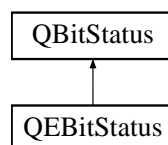
- int **width**
- const QString **caption**
- const QString **iconName**
- const QString **toolTip**
- const char * **member**

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

- /home/andrew/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/andrew/epicsqt/framework/widgets/QEBitStatus/QBitStatus.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEBitStatus/QBitStatusManager.h
- /home/andrew/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

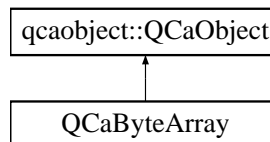
- static QCAALARMINFO_SEVERITY **getInvalidSeverity** ()

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

- /home/andrew/epicsqt/framework/data/include/QCaAlarmInfo.h
- /home/andrew/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/andrew/epicsqt/framework/data/include/QCaByteArray.h
- /home/andrew/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/andrew/epicsqt/framework/data/include/QCaConnectionInfo.h
- /home/andrew/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/andrew/epicsqt/framework/data/include/QCaDataPoint.h

10.42 QCaDataPointList Class Reference

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

- /home/andrew/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

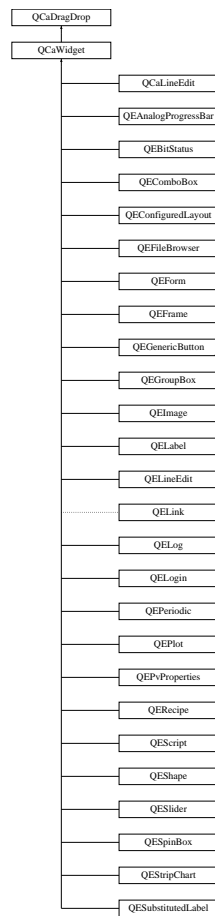
- unsigned long **nSec**

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

- /home/andrew/epicsqt/framework/data/include/QCaDateTime.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/include/QCaDragDrop.h
- /home/andrew/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/andrew/epicsqt/framework/data/include/QCaEventFilter.h
- /home/andrew/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/andrew/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

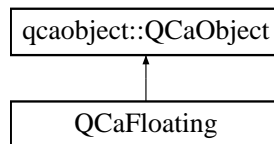
- static QEvent::Type **EVENT_UPDATE_TYPE** = QEvent::User

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

- /home/andrew/epicsqt/framework/data/include/QCaEventUpdate.h
- /home/andrew/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/andrew/epicsqt/framework/data/include/QCaFloating.h
- /home/andrew/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/andrew/epicsqt/framework/data/include/QCaFloatingFormatting.h
- /home/andrew/epicsqt/framework/data/src/QCaFloatingFormatting.cpp

10.50 QCaInstalledFiltersListItem Class Reference

Public Member Functions

- **QCaInstalledFiltersListItem** (QObject *eventObjectIn)

Public Attributes

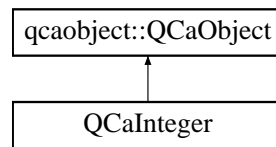
- QObject * **eventObject**
- long **referenceCount**

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

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

10.52 QCaIntegerFormatting Class Reference

Public Member Functions

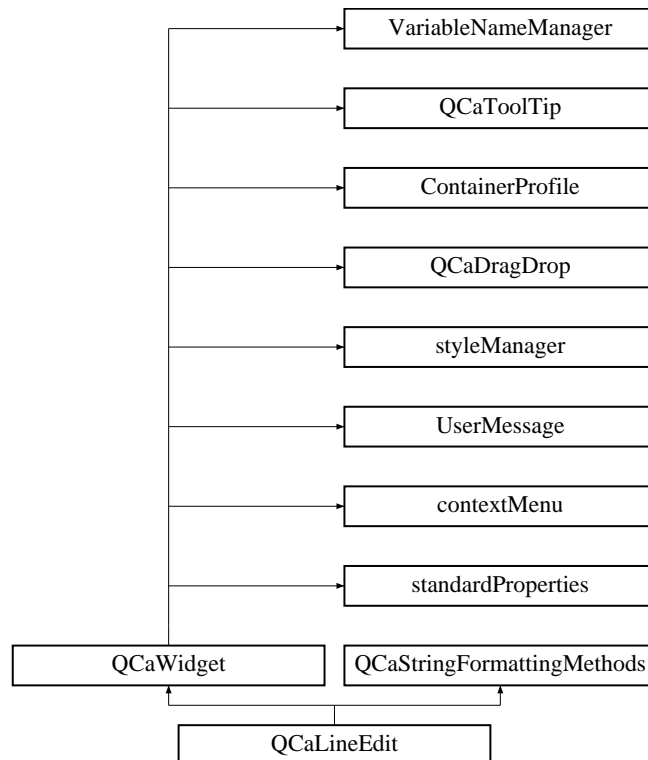
- long **formatInteger** (const QVariant &value)
- QVector< long > **formatIntegerArray** (const QVariant &value)
- QVariant **formatValue** (const long &integerValue, generic::generic_types valueType)
- void **setRadix** (unsigned int radix)
- unsigned int **getPrecision** ()
- unsigned int **getRadix** ()

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

- /home/andrew/epicsqt/framework/data/include/QCaIntegerFormatting.h
- /home/andrew/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

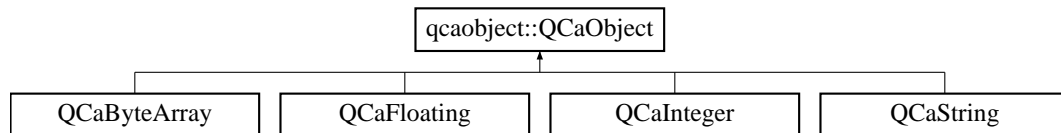
Set the enabled state of the widget only if connected

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

- /home/andrew/epicsqt/framework/widgets/include/QCaLineEdit.h
- /home/andrew/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

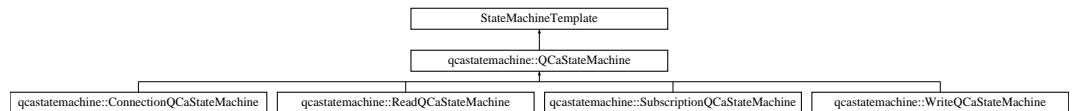
- static void **processEventStatic** (QCaEventUpdate *dataUpdateEvent)

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

- /home/andrew/epicsqt/framework/data/include/QCaObject.h
- /home/andrew/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

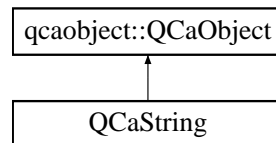
- QMutex **lock**
- bool **pending**
- bool **active**
- bool **expired**
- void * **myWorker**

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

- /home/andrew/epicsqt/framework/data/include/QCaStateMachine.h
- /home/andrew/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 &variableIndexIn)
- void **stringChanged** (const QString &value, [QCaAlarmInfo](#) &alarmInfo, [QCaDateTime](#) &timeStamp, const unsigned int &variableIndexIn)

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/andrew/epicsqt/framework/data/include/QCaString.h
- /home/andrew/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

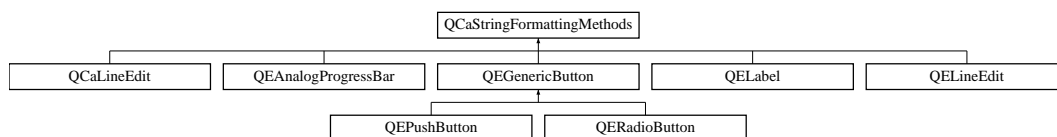
- QString **formatString** (const QVariant &value)
- QVariant **formatValue** (const QString &text)
- void **setDbEgu** (QString egu)
- void **setDbEnumerations** (QStringList enumerations)
- void **setDbPrecision** (unsigned int dbPrecisionIn)
- void **setDbVariableIsStatField** (bool isStatField)
- 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/andrew/epicsqt/framework/data/include/QCaStringFormatting.h
- /home/andrew/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

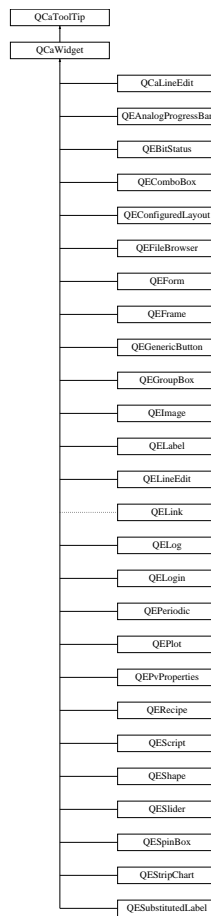
- [QCaStringFormatting](#) **stringFormatting**

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

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

10.60 QCaVariableNamePropertyManager Class Reference

Signals

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

Public Member Functions

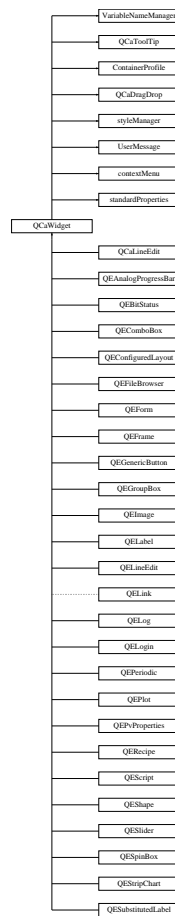
- QString **getVariableNameProperty** ()
- void **setVariableNameProperty** (QString variableNamePropertyIn)
- QString **getSubstitutionsProperty** ()
- void **setSubstitutionsProperty** (QString substitutionsPropertyIn)
- void **setVariableIndex** (unsigned int variableIndexIn)

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

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

10.61 QCaWidget Class Reference

Inheritance diagram for QCaWidget:



Public Member Functions

- **QCaWidget** (QWidget *ownerIn)
- void **activate** ()
- unsigned int **getMessageSourceId** ()
- void **setMessageSourceId** (unsigned int messageSourceId)
- [qcaobject::QCaObject](#) * **getQcalItem** (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](#) * **createQcaltem** (unsigned int variableIndex)
- virtual void **establishConnection** (unsigned int variableIndex)
- void **setVariableAsToolTip** (bool variableAsToolTip)
- bool **getVariableAsToolTip** ()

Protected Attributes

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

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

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

10.62 QCaWidgets Class Reference

Public Member Functions

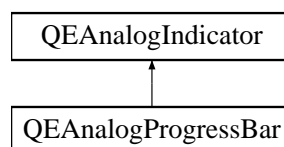
- **QCaWidgets** (QObject *parent=0)
- virtual QList < QDesignerCustomWidgetInterface * > **customWidgets** () const

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

- /home/andrew/epicsqt/framework/widgets/include/QCaDesignerPlugin.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicator.-h
- /home/andrew/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicator.-cpp

10.64 QEAnalogIndicatorManager Class Reference

Public Member Functions

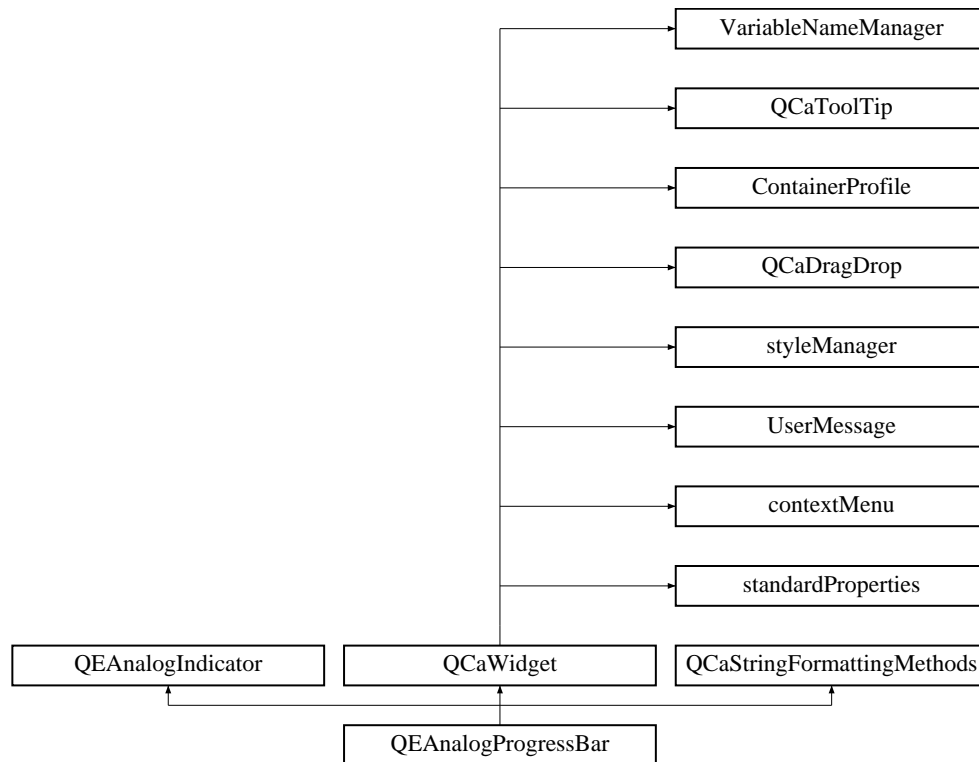
- **QEAnalogIndicatorManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
-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

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

- /home/andrew/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicator-Manager.h
- /home/andrew/epicsqt/framework/widgets/QEAnalogIndicator/QEAnalogIndicator-Manager.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)
- void **requestResend** ()

Public Member Functions

- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableName-Substitutions)
- 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** ()
- [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/andrew/epicsqt/framework/widgets/QEAnalogProgressBar/QEAnalog-ProgressBar.h
- /home/andrew/epicsqt/framework/widgets/QEAnalogProgressBar/QEAnalog-ProgressBar.cpp

10.66 QEAnalogProgressBarManager Class Reference

Public Member Functions

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

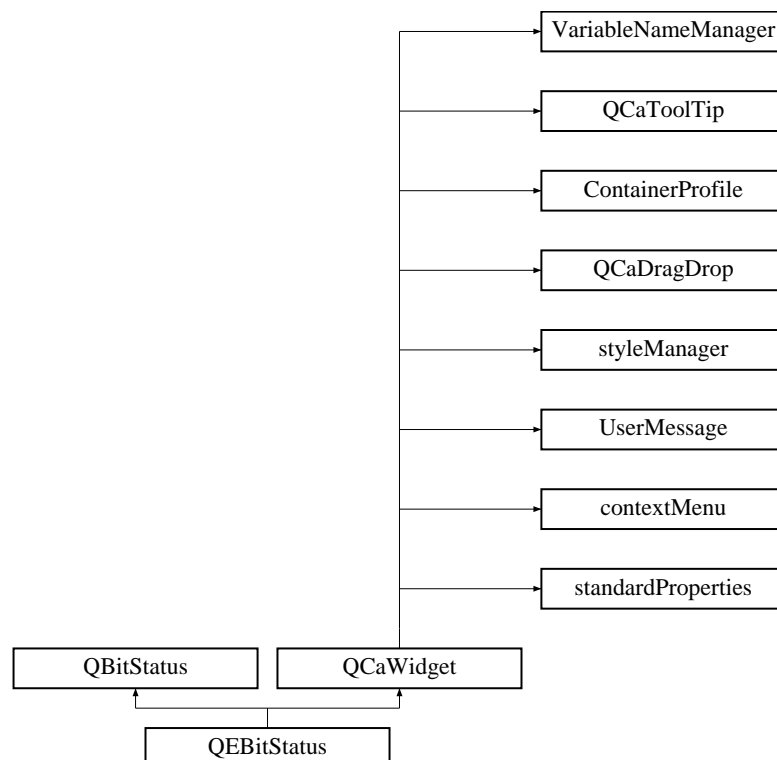
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget * **createWidget** (QWidget *parent)
- void **initialize** (QDesignerFormEditorInterface *core)

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

- /home/andrew/epicsqt/framework/widgets/QEAnalogProgressBar/QEAnalogProgressBarManager.h
- /home/andrew/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)
- **QEBitStatus** (QWidget *parent=0)
- **QEBitStatus** (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

- [QCaIntegerFormatting](#) **integerFormatting**

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

10.68 QEBitStatusManager Class Reference

Public Member Functions

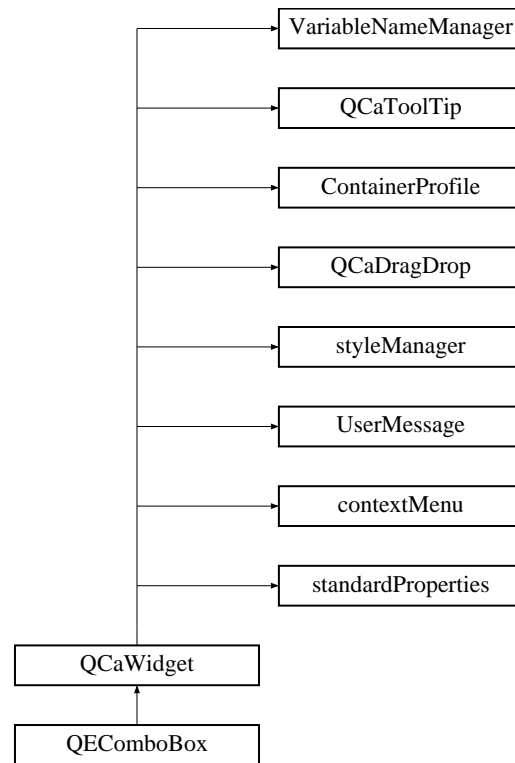
- **QEBitStatusManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget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

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

- /home/andrew/epicsqt/framework/widgets/QEBitStatus/QEBitStatusManager.h
- /home/andrew/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** ()

Signals

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

Public Member Functions

- **QEComboBox** (QWidget *parent=0)
- **QEComboBox** (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/andrew/epicsqt/framework/widgets/QEComboBox/QEComboBox.h
- /home/andrew/epicsqt/framework/widgets/QEComboBox/QEComboBox.cpp

10.70 QEComboBoxManager Class Reference

Public Member Functions

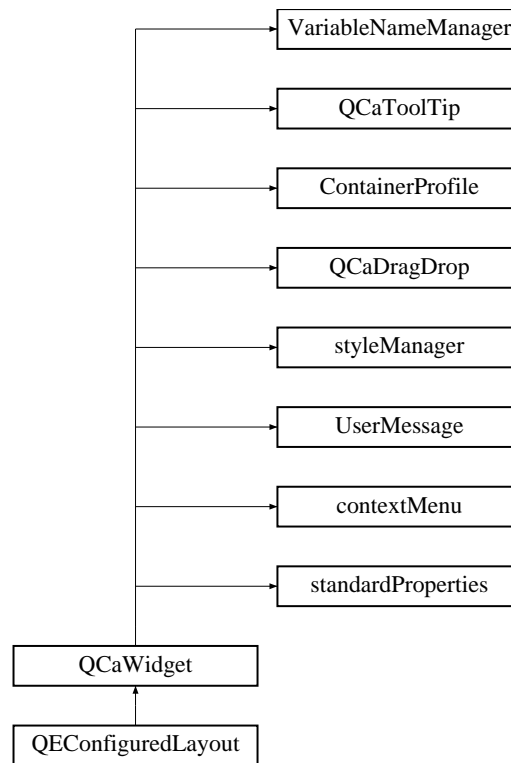
- **QEComboBoxManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget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

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

- /home/andrew/epicsqt/framework/widgets/QEComboBox/QEComboBoxManager.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.h
- /home/andrew/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayout.cpp

10.72 QEConfiguredLayoutManager Class Reference

Public Member Functions

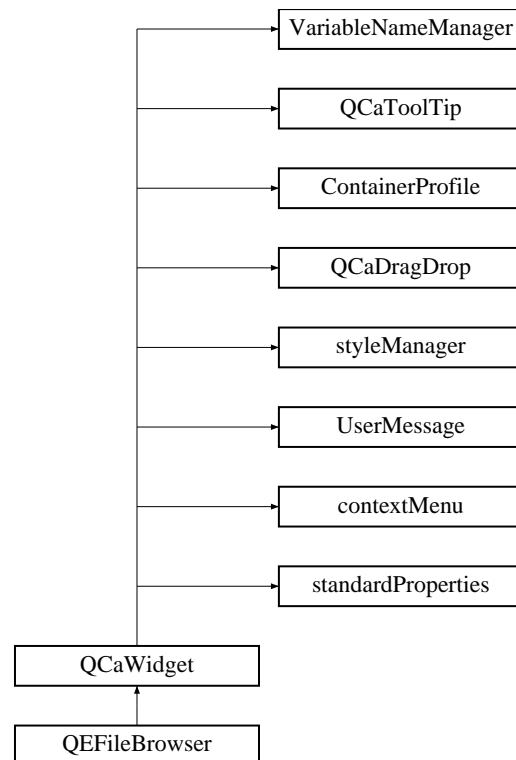
- **QEConfiguredLayoutManager** (QObject *pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const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

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

- /home/andrew/epicsqt/framework/widgets/QEConfiguredLayout/QEConfiguredLayoutManager.h
- /home/andrew/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

- **QEFileBrowser** (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/andrew/epicsqt/framework/widgets/QFileBrowser/QFileBrowser.h
- /home/andrew/epicsqt/framework/widgets/QFileBrowser/QFileBrowser.cpp

10.74 QFileBrowserManager Class Reference

Public Member Functions

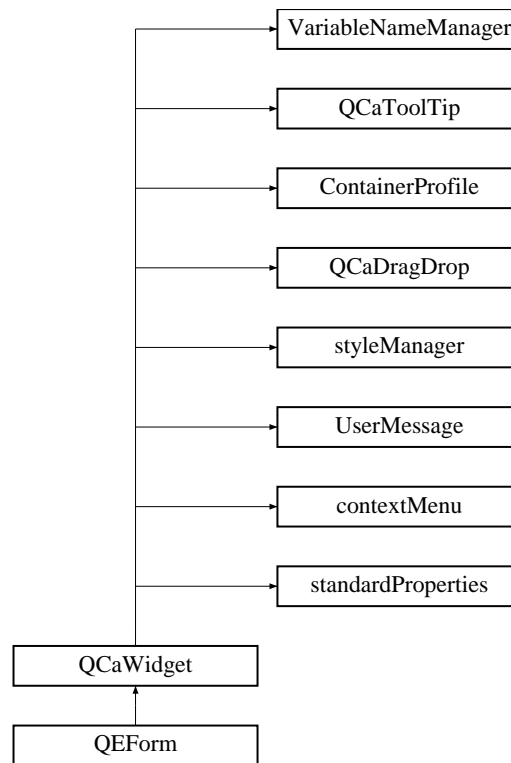
- **QFileBrowserManager** (QObject *pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget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

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

- /home/andrew/epicsqt/framework/widgets/QFileBrowser/QFileBrowser-Manager.h
- /home/andrew/epicsqt/framework/widgets/QFileBrowser/QFileBrowser-Manager.cpp

10.75 QForm Class Reference

Inheritance diagram for QForm:



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, QForm::creationOptions createOption)

Public Member Functions

- **QForm** (QWidget *parent=0)
- **QForm** (const QString &uifileNameIn, 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/andrew/epicsqt/framework/widgets/QEForm/QEForm.h
- /home/andrew/epicsqt/framework/widgets/QEForm/QEForm.cpp

10.76 QFormManager Class Reference

Public Member Functions

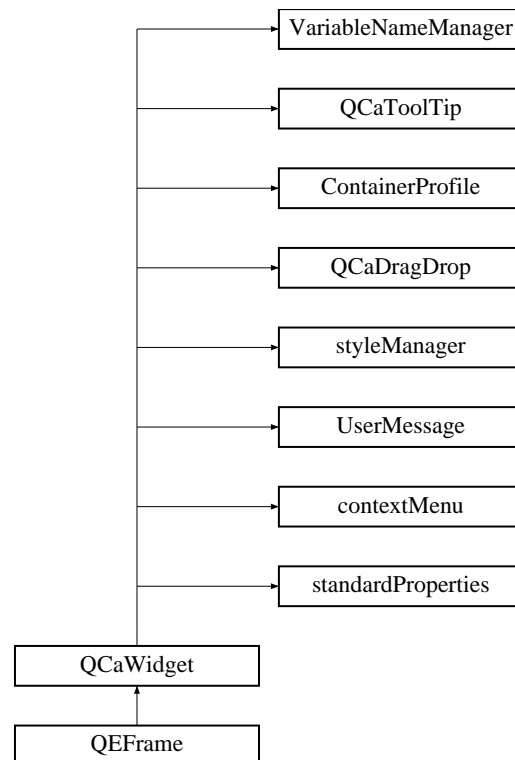
- **QFormManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget * **createWidget**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

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

- /home/andrew/epicsqt/framework/widgets/QForm/QFormManager.h
- /home/andrew/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)
- **QEFrame** (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/andrew/epicsqt/framework/widgets/QEFrame/QEFrame.h
- /home/andrew/epicsqt/framework/widgets/QEFrame/QEFrame.cpp

10.78 QEFrameManager Class Reference

Public Member Functions

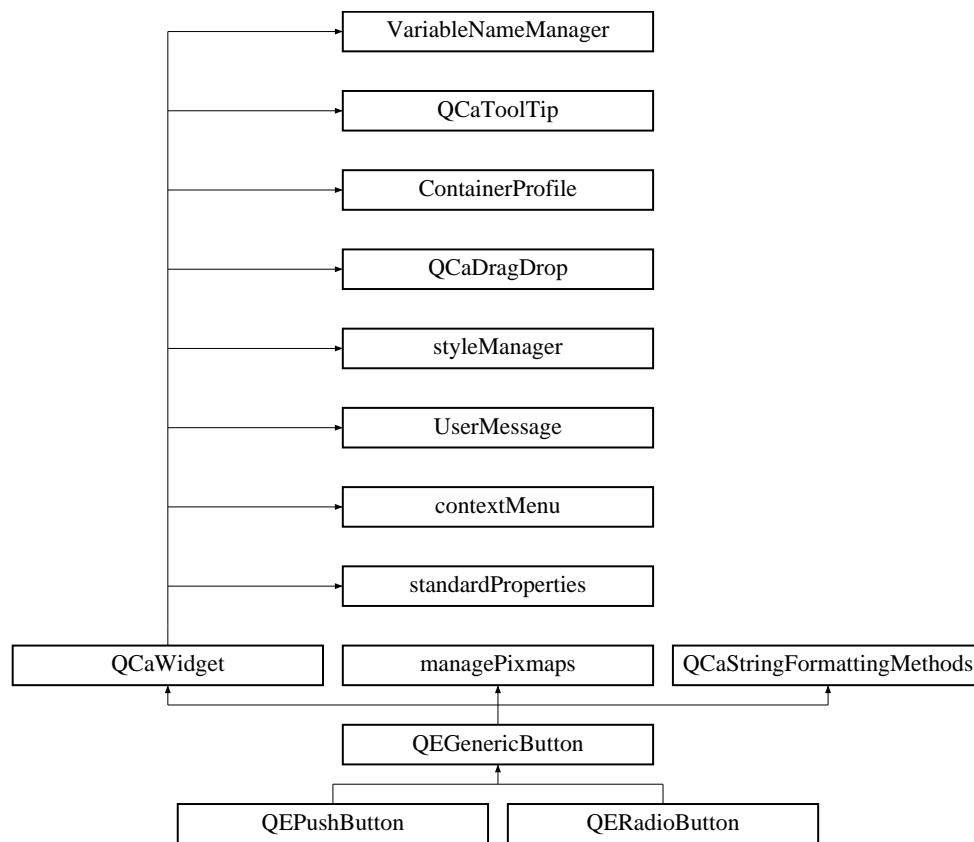
- **QEFrameManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget *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

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

- /home/andrew/epicsqt/framework/widgets/QEFrame/QEFrameManager.h
- /home/andrew/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**

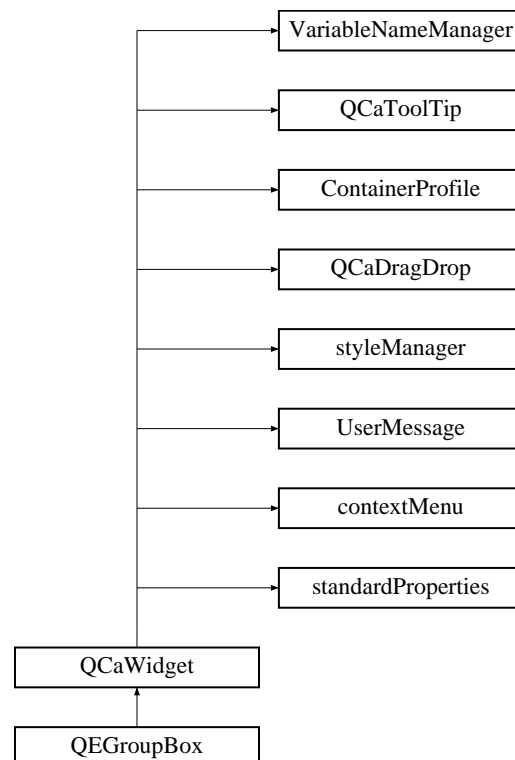
- QString **pressText**
- QString **clickText**
- QString **clickCheckedText**
- QString **program**
- QStringList **arguments**
- QString **guiName**
- QForm::creationOptions **creationOption**
- bool **localEnabled**
- updateOptions **updateOption**
- QString **labelText**

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

- /home/andrew/epicsqt/framework/widgets/QEButton/QEGenericButton.h
- /home/andrew/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)
- **QGroupBox** (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/andrew/epicsqt/framework/widgets/QGroupBox/QGroupBox.h
- /home/andrew/epicsqt/framework/widgets/QGroupBox/QGroupBox.cpp

10.81 QGroupBoxManager Class Reference

Public Member Functions

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

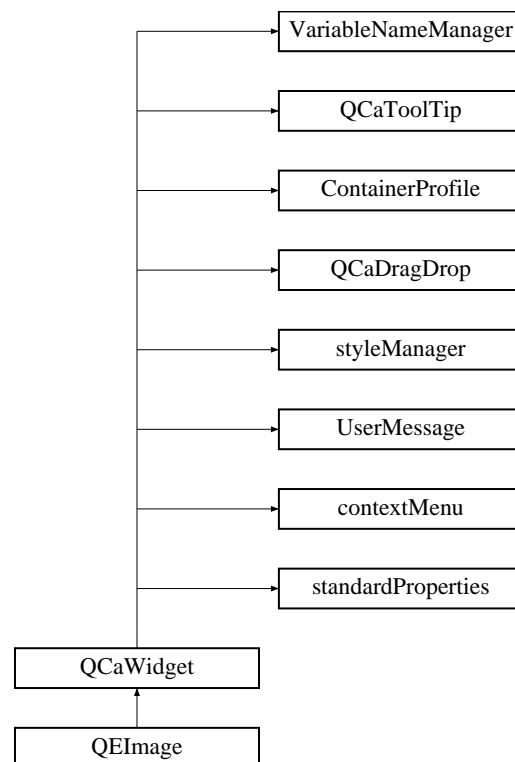
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget * **createWidget** (QWidget *parent)
- void **initialize** (QDesignerFormEditorInterface *core)

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

- /home/andrew/epicsqt/framework/widgets/QEGroupBox/QEGroupBoxManager.h
- /home/andrew/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** = QEImage::GREY8, **Grey_12** = QEImage::GREY12, **Grey_16** = QEImage::GREY16, **RGB** = QEImage::RGB_888 }
- enum **ResizeOptions** { **Zoom** = QEImage::RESIZE_OPTION_ZOOM, **Fit** = QEImage::RESIZE_OPTION_FIT }
- enum **RotationOptions** { **NoRotation** = QEImage::ROTATION_0, **Rotate90Right** = QEImage::ROTATION_90_RIGHT, **Rotate90Left** = QEImage::ROTATION_90_LEFT, **Rotate180** = QEImage::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

- **QEImage** (QWidget *parent=0)
- **QEImage** (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 **setEnableTargetSelection** (bool enableTargetSelectionIn)

- bool **getEnableTargetSelection** ()
- 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**

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

- /home/andrew/epicsqt/framework/widgets/QEImage/QEImage.h
- /home/andrew/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)

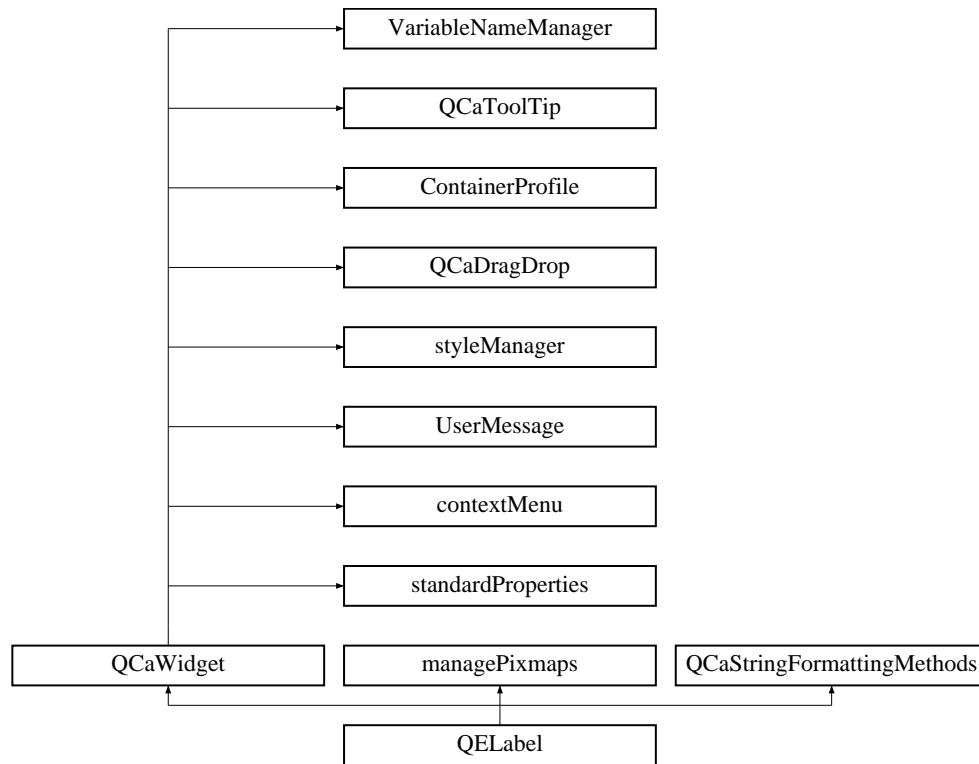
The documentation for this class was generated from the following files:

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

10.84 QELabel Class Reference

```
#include <QELabel.h>
```

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)
- void **requestResend** ()

Public Member Functions

- **QELabel** (QWidget *parent=0)
- **QELabel** (const QString &variableName, QWidget *parent=0)
- void **setUpdateOption** (updateOptions updateOptionIn)
- updateOptions **getUpdateOption** ()
- void **setVariableNameProperty** (QString variableName)
- QString **getVariableNameProperty** ()
- void **setVariableNameSubstitutionsProperty** (QString variableName-Substitutions)
- 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**
EPICS variable name (CA PV)
- 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**

10.84.1 Detailed Description

This class is a CA aware label widget based on the Qt label widget. It is tightly integrated with the base class [QCaWidget](#).

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

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

10.85 QELabelManager Class Reference

Public Member Functions

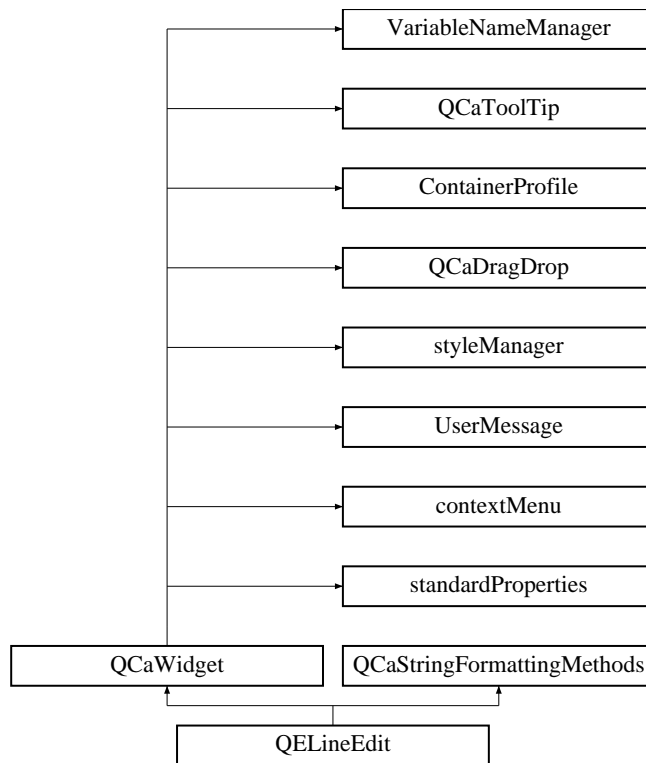
- **QELabelManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget *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

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

- /home/andrew/epicsqt/framework/widgets/QELabel/QELabelManager.h
- /home/andrew/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** ()
- **QLineEdit** (QWidget *parent=0)
- **QLineEdit** (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/andrew/epicsqt/framework/widgets/QLEdit/QLEdit.h
- /home/andrew/epicsqt/framework/widgets/QLEdit/QLEdit.cpp

10.87 QLEditManager Class Reference

Public Member Functions

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

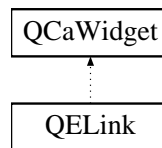
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget * **createWidget** (QWidget *parent)
- void **initialize** (QDesignerFormEditorInterface *core)

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

- /home/andrew/epicsqt/framework/widgets/QLineEdit/QLineEditManager.h
- /home/andrew/epicsqt/framework/widgets/QLineEdit/QLineEditManager.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/andrew/epicsqt/framework/widgets/QELink/QELink.h
- /home/andrew/epicsqt/framework/widgets/QELink/QELink.cpp

10.89 QELinkManager Class Reference

Public Member Functions

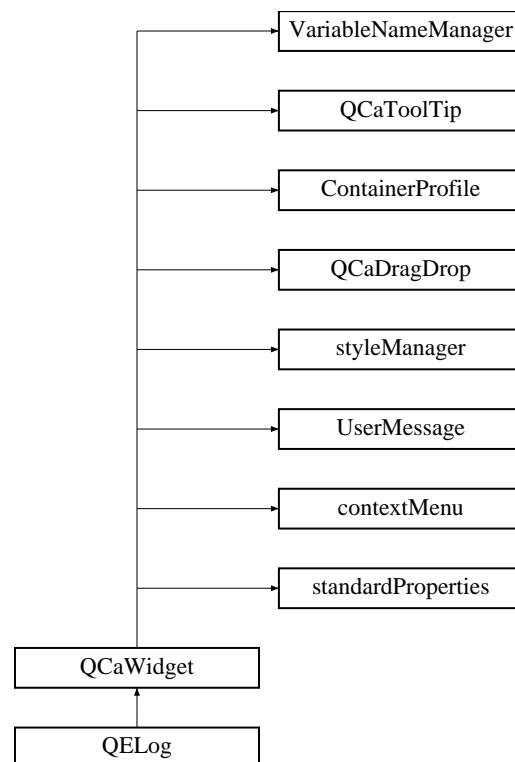
- **QELinkManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget * **createWidget**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

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

- /home/andrew/epicsqt/framework/widgets/QELink/QELinkManager.h
- /home/andrew/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**

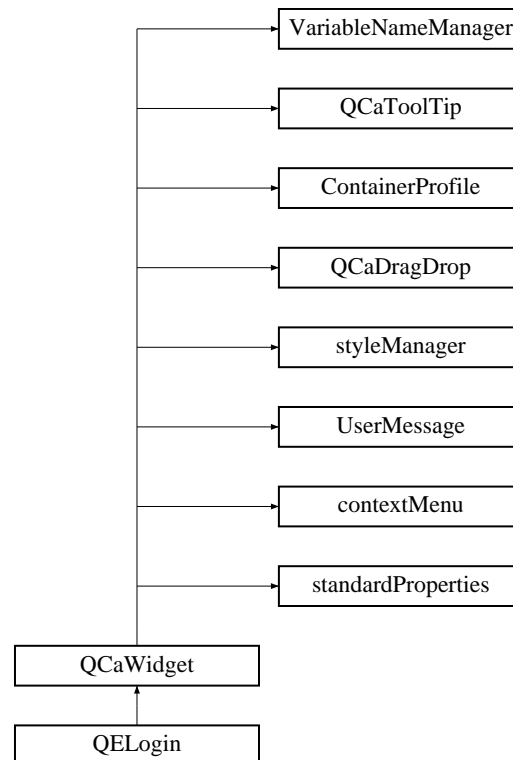
- QColor **infoColor**
- QColor **warningColor**
- QColor **errorColor**
- MessageFilterOptions **messageFormFilter**
- MessageFilterOptions **messageSourceFilter**

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

- /home/andrew/epicsqt/framework/widgets/QELog/QELog.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QELogin/QELogin.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QELogin/QELoginManager.h
- /home/andrew/epicsqt/framework/widgets/QELogin/QELoginManager.cpp

10.93 QELogManager Class Reference

Public Member Functions

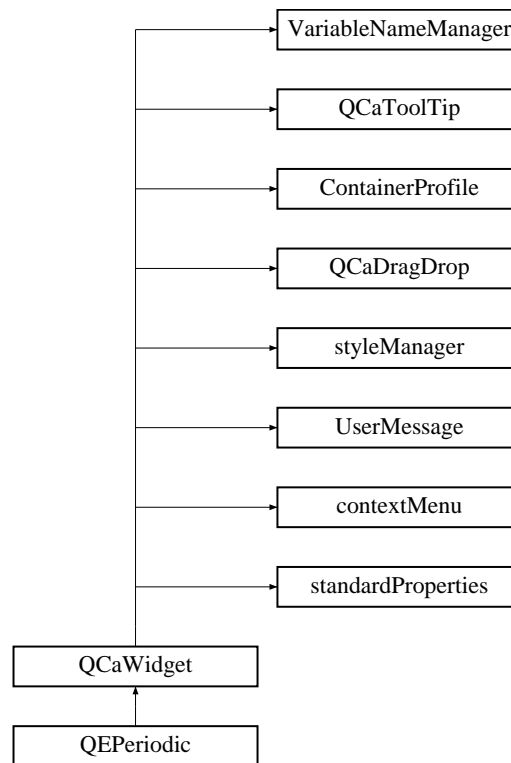
- **QELogManager** (QObject *pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget * **createWidget**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

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

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

10.94 QEPeriodic Class Reference

Inheritance diagram for QEPeriodic:



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** = QEPeriodic::PRESENTATION_BUTTON_AND_LABEL, **buttonOnly** = QEPeriodic::PRESENTATION_BUTTON_ONLY, **labelOnly** = QEPeriodic::PRESENTATION_LABEL_ONLY }
- enum **VariableTypes** { **Number** = QEPeriodic::VARIABLE_TYPE_NUMBER, **atomicWeight** = QEPeriodic::VARIABLE_TYPE_ATOMIC_WEIGHT, **meltingPoint** = QEPeriodic::VARIABLE_TYPE_MELTING_POINT, **boilingPoint** = QEPeriodic::VARIABLE_TYPE_BOILING_POINT, **density** = QEPeriodic::VARIABLE_TYPE_DENSITY, **group** = QEPeriodic::VARIABLE_TYPE_GROUP, **ionizationEnergy** = QEPeriodic::VARIABLE_TYPE_IONIZATION_ENERGY, **userValue1** = QEPeriodic::VARIABLE_TYPE_USER_VALUE_1, **userValue2** = QEPeriodic::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

- **QEPeriodic** (QWidget *parent=0)
- **QEPeriodic** (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/andrew/epicsqt/framework/widgets/QEPeiodic/QEPeiodic.h
- /home/andrew/epicsqt/framework/widgets/QEPeiodic/QEPeiodic.cpp

10.95 QEPeiodicComponentData 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/andrew/epicsqt/framework/widgets/QEPeiodic/QEPeiodic.h

10.96 QEPeiodicManager Class Reference

Public Member Functions

- **QEPeiodicManager** (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/andrew/epicsqt/framework/widgets/QEPeriodic/QEPeriodicManager.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEPeriodic/QEPeriodicTaskMenu.h
- /home/andrew/epicsqt/framework/widgets/QEPeriodic/QEPeriodicTaskMenu-Extension.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/andrew/epicsqt/framework/widgets/QEPeriodic/QEPeriodicTaskMenu.h
- /home/andrew/epicsqt/framework/widgets/QEPeriodic/QEPeriodicTaskMenu-Extension.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

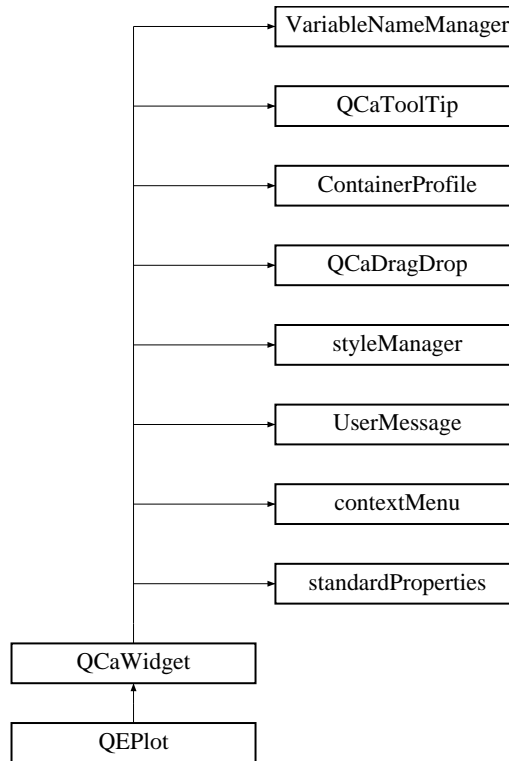
- static void **setDebugLevel** (unsigned level=0)
- static QVariant **get** (const QString &_pvName, int delay=defaultDelay)
- static QVariant **set** (QString &_pvName, const QVariant &value, int delay=-1)

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

- /home/andrew/epicsqt/framework/data/include/qepicspv.h
- /home/andrew/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 variableName-Substitutions)
- 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/andrew/epicsqt/framework/widgets/QEPlot/QEPlot.h
- /home/andrew/epicsqt/framework/widgets/QEPlot/QEPlot.cpp

10.101 QEPlotManager Class Reference

Public Member Functions

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

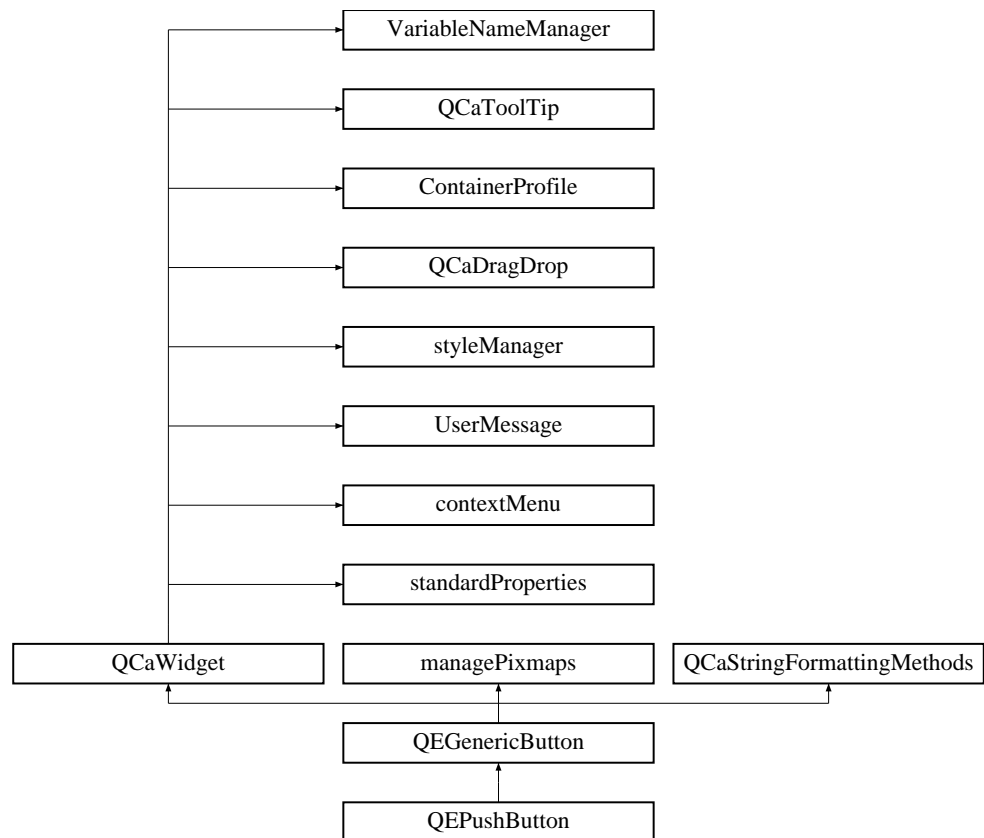
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget * **createWidget** (QWidget *parent)
- void **initialize** (QDesignerFormEditorInterface *core)

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

- /home/andrew/epicsqt/framework/widgets/QEPlot/QEPlotManager.h
- /home/andrew/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** = 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)

Signals

- void **dbValueChanged** (const QString &out)
- void **newGui** (QString guiName, QForm::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/andrew/epicsqt/framework/widgets/QEButton/QEPushButton.h
- /home/andrew/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

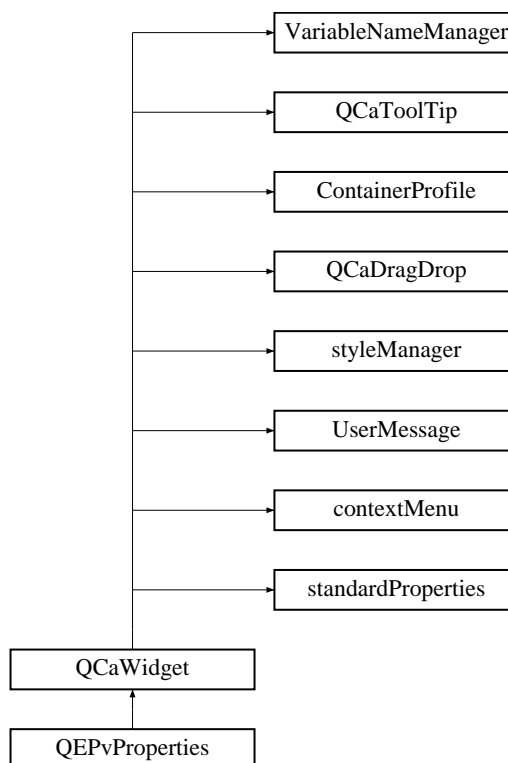
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget * **createWidget** (QWidget *parent)
- void **initialize** (QDesignerFormEditorInterface *core)

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

- /home/andrew/epicsqt/framework/widgets/QEButton/QEPushButtonManager.h
- /home/andrew/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**

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

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

10.105 QEPvPropertiesManager Class Reference

Public Member Functions

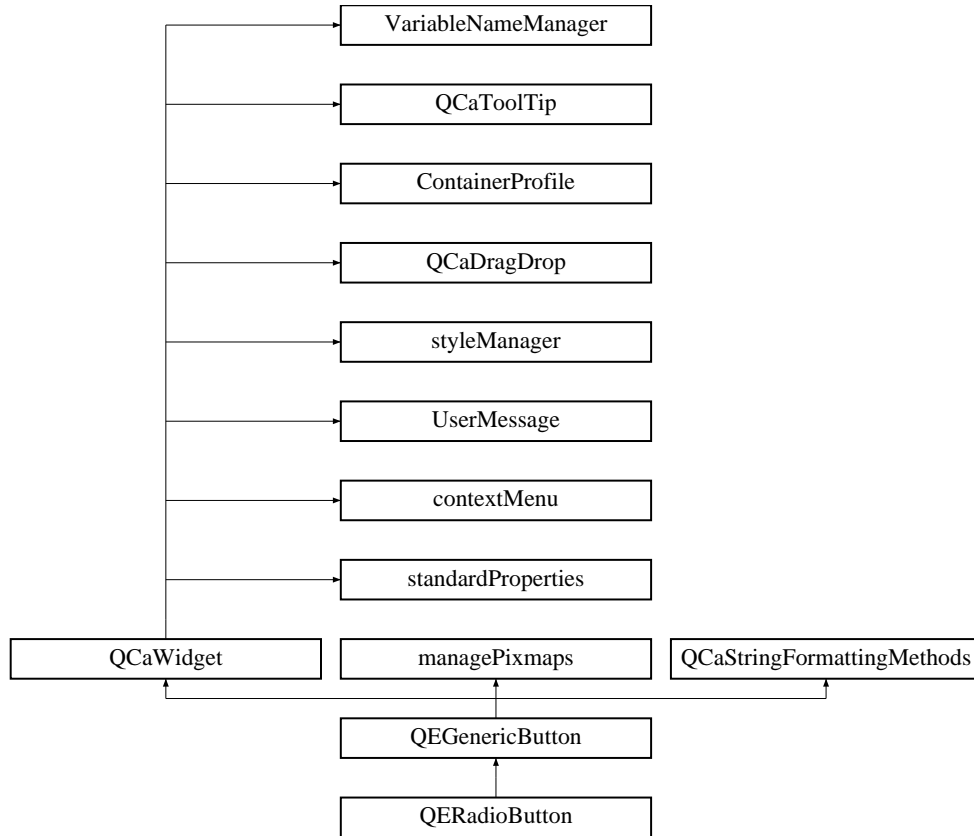
- **QEPvPropertiesManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget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

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

- /home/andrew/epicsqt/framework/widgets/QEPvProperties/QEPvProperties-Manager.h
- /home/andrew/epicsqt/framework/widgets/QEPvProperties/QEPvProperties-Manager.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)

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/andrew/epicsqt/framework/widgets/QEButton/QERadioButton.h
- /home/andrew/epicsqt/framework/widgets/QEButton/QERadioButton.cpp

10.107 QERadioButtonManager Class Reference

Public Member Functions

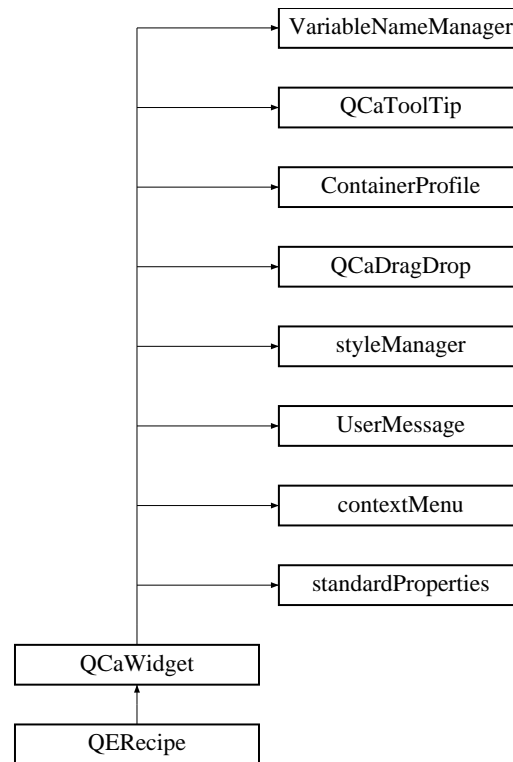
- **QERadioButtonManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget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

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

- /home/andrew/epicsqt/framework/widgets/QEButton/QERadioButtonManager.h
- /home/andrew/epicsqt/framework/widgets/QEButton/QERadioButtonManager.-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/andrew/epicsqt/framework/widgets/QERecipe/QERecipe.h
- /home/andrew/epicsqt/framework/widgets/QERecipe/QERecipe.cpp

10.109 QERecipeManager Class Reference

Public Member Functions

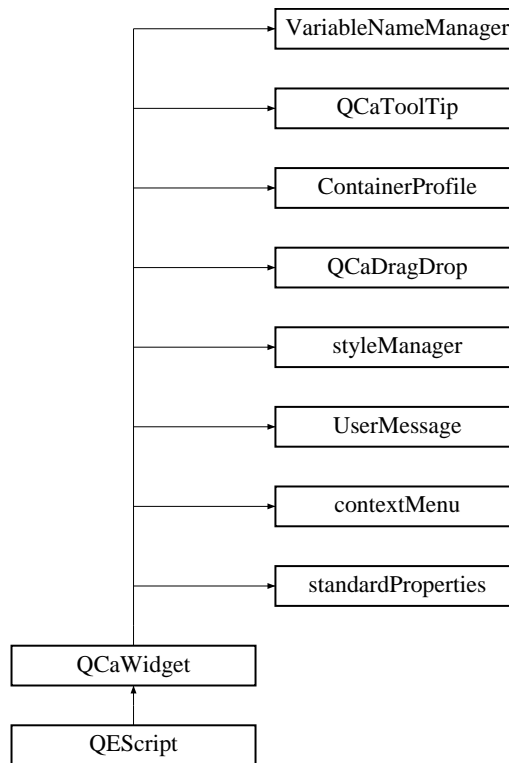
- **QERecipeManager** (QObject *pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget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

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

- /home/andrew/epicsqt/framework/widgets/QERecipe/QERecipeManager.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEScript/QEScript.h
- /home/andrew/epicsqt/framework/widgets/QEScript/QEScript.cpp

10.111 QEScriptManager Class Reference

Public Member Functions

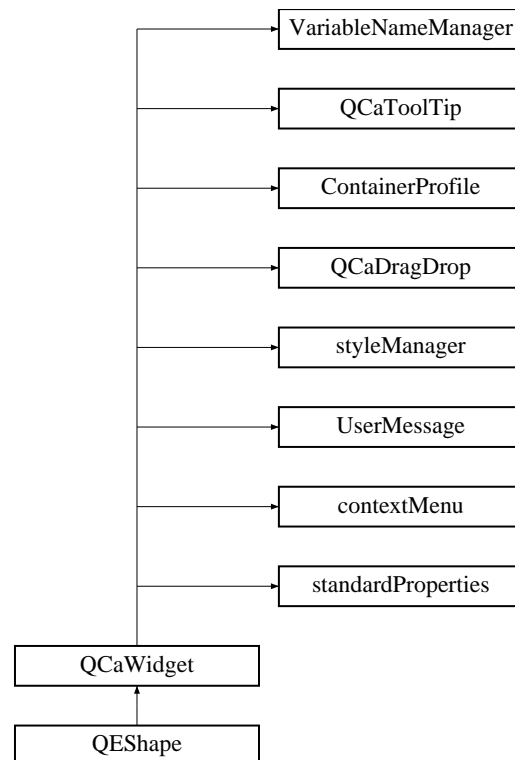
- **QEScriptManager** (QObject *pParent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget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

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

- /home/andrew/epicsqt/framework/widgets/QEScript/QEScriptManager.h
- /home/andrew/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 qlonglong &out)
- void **dbValueChanged2** (const qlonglong &out)
- void **dbValueChanged3** (const qlonglong &out)
- void **dbValueChanged4** (const qlonglong &out)
- void **dbValueChanged5** (const qlonglong &out)
- void **dbValueChanged6** (const qlonglong &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 variableName-Substitutions)
- 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/andrew/epicsqt/framework/widgets/QEShape/QEShape.h
- /home/andrew/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

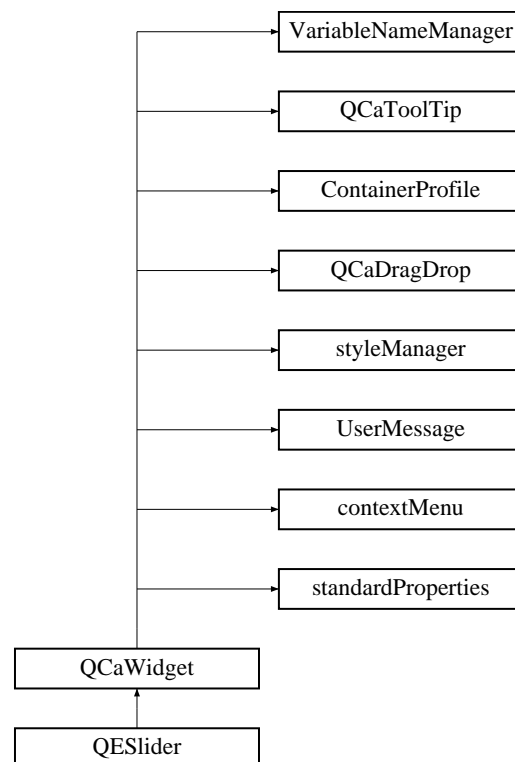
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget * **createWidget** (QWidget *parent)
- void **initialize** (QDesignerFormEditorInterface *core)

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

- /home/andrew/epicsqt/framework/widgets/QEShape/QEShapeManager.h
- /home/andrew/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** ()

Signals

- void **dbValueChanged** (const qulonglong &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 variableName-Substitutions)
- 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**

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

10.115 QESliderManager Class Reference

Public Member Functions

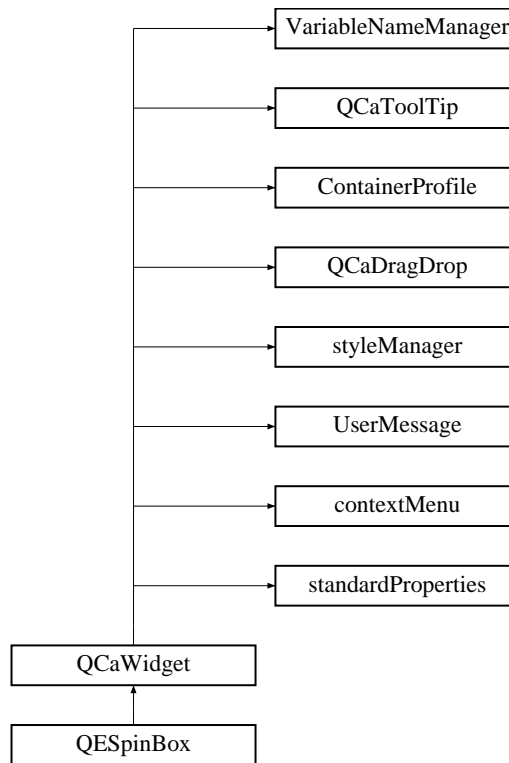
- **QESliderManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget *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

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

- /home/andrew/epicsqt/framework/widgets/QESlider/QESliderManager.h
- /home/andrew/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** ()

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 variableName-Substitutions)
- 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/andrew/epicsqt/framework/widgets/QESpinBox/QESpinBox.h
- /home/andrew/epicsqt/framework/widgets/QESpinBox/QESpinBox.cpp

10.117 QESpinBoxManager Class Reference

Public Member Functions

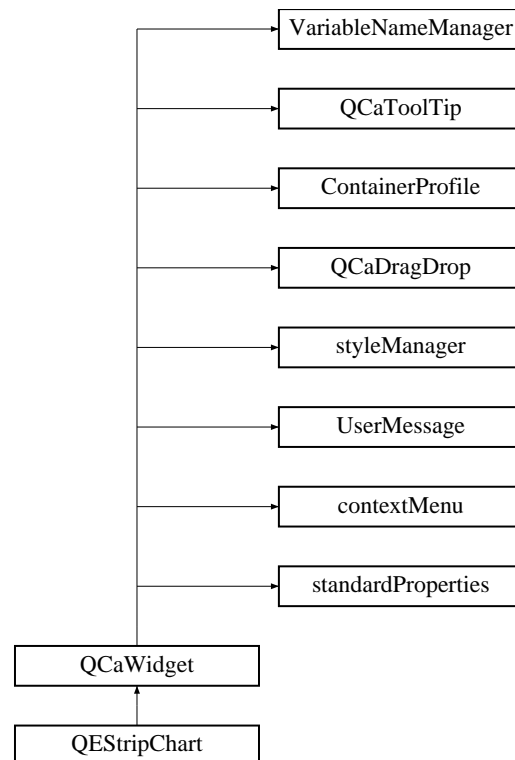
- **QESpinBoxManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
- QWidget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

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

- /home/andrew/epicsqt/framework/widgets/QESpinBox/QESpinBoxManager.h
- /home/andrew/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

- **QEStripChart** (QWidget *parent=0)
- QSize **sizeHint** () const
- QDateTime **getStartDateTime** ()
- QDateTime **getEndDateTime** ()
- void **setEndDateTime** (QDateTime endDateTimeIn)
- 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/andrew/epicsqt/framework/widgets/QEStripChart/QEStripChart.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEStripChart/QEStripChartItem.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEStripChart/QEStripChartItemDialog.h
- /home/andrew/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/andrew/epicsqt/framework/widgets/QEStripChart/QEStripChartManager.-h
- /home/andrew/epicsqt/framework/widgets/QEStripChart/QEStripChartManager.-cpp

10.122 QEStripChartTimeDialog Class Reference

Public Member Functions

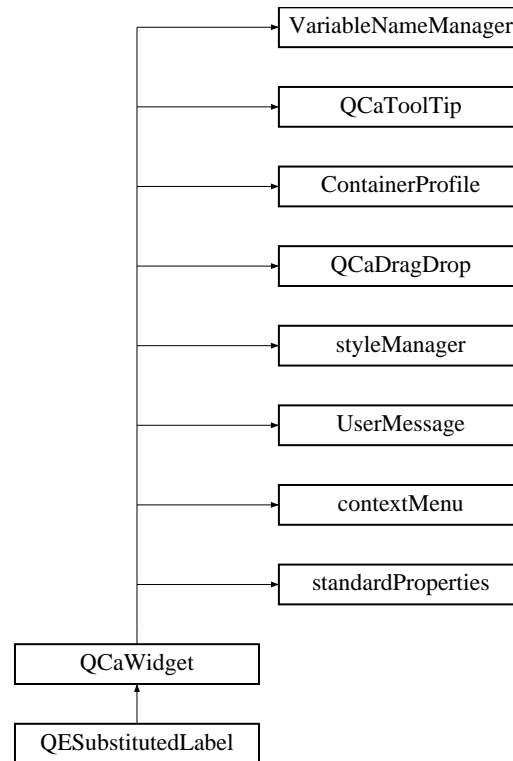
- **QEStripChartTimeDialog** (QWidget *parent=0)
- void **setMaximumDateTime** (QDateTime datetime)
- void **setStartDateTime** (QDateTime datetime)
- QDateTime **getStartDateTime** ()
- void **setEndDateTime** (QDateTime datetime)
- QDateTime **getEndDateTime** ()

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

- /home/andrew/epicsqt/framework/widgets/QEStripChart/QEStripChartTimeDialog.h
- /home/andrew/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 variableName-Substitutions)
- QString **getVariableNameSubstitutionsProperty** ()

Protected Attributes

- QString **labelText**

Properties

- QString **textSubstitutions**

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

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

10.124 QESubstitutedLabelManager Class Reference

Public Member Functions

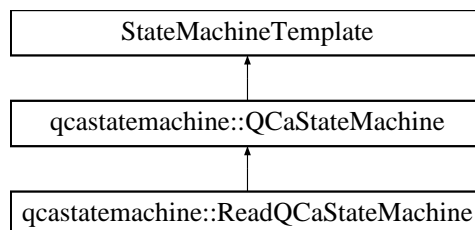
- **QESubstitutedLabelManager** (QObject *parent=0)
- bool **isContainer** () const
- bool **isInitialized** () const
- QIcon **icon** () const
- QString **group** () const
- QString **includeFile** () const
- QString **name** () const
- QString **toolTip** () const
- QString **whatsThis** () const
-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

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

- /home/andrew/epicsqt/framework/widgets/QESubstitutedLabel/QESubstitutedLabelManager.h
- /home/andrew/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/andrew/epicsqt/framework/data/include/QCaStateMachine.h
- /home/andrew/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/andrew/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/andrew/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)

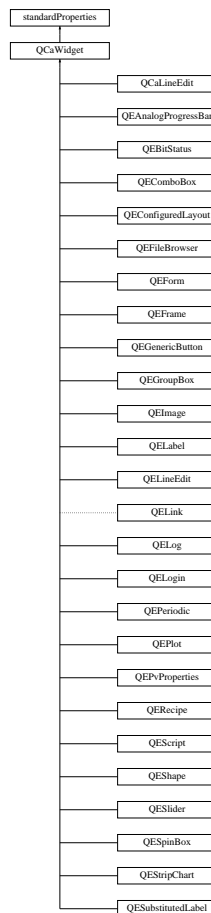
- void **setAreaEnabled** (bool enableAreaSelection)
- void **setProfileEnabled** (bool enableProfileSelection)
- void **setTargetEnabled** (bool enableTargetSelection)

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

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

10.129 standardProperties Class Reference

Inheritance diagram for standardProperties:



Public Member Functions

- **standardProperties** (QWidget *ownerIn)

Protected Member Functions

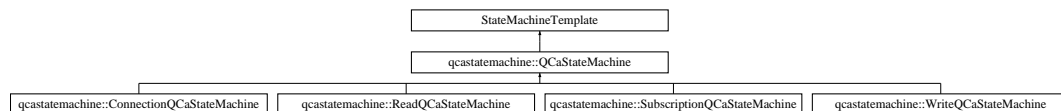
- userLevels **getUserLevelVisibility** ()
- void **setUserLevelVisibility** (userLevels level)
- userLevels **getUserLevelEnabled** ()
- void **setUserLevelEnabled** (userLevels level)
- bool **getApplicationEnabled** () const
- void **setApplicationEnabled** (bool state)
- void **setDataDisabled**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

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

- /home/andrew/epicsqt/framework/widgets/include/standardProperties.h
- /home/andrew/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

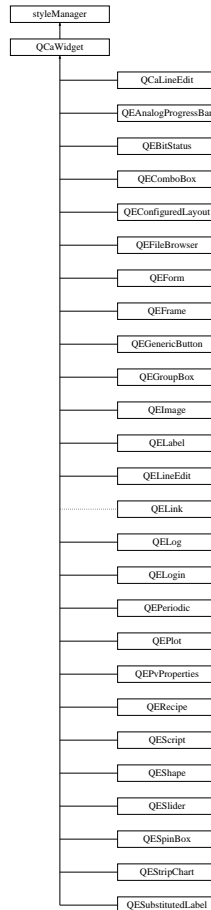
- int **currentState**
- int **requestState**

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

- /home/andrew/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)

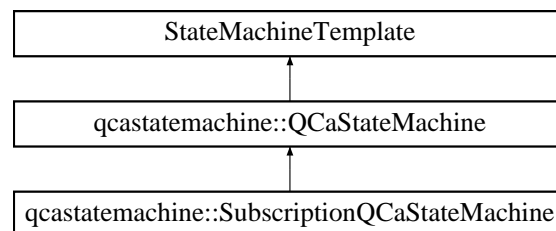
- void **updateStatusStyle** (QString style)
- void **styleUserLevelChanged** (userLevels levelIn)

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

- /home/andrew/epicsqt/framework/widgets/include/styleManager.h
- /home/andrew/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/andrew/epicsqt/framework/data/include/QCaStateMachine.h
- /home/andrew/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/andrew/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/andrew/epicsqt/framework/widgets/QEStripChart/QEStripChartItem.h`
- `/home/andrew/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/andrew/epicsqt/framework/widgets/QEPeriodic/QEPeriodic.h`

10.136 QEPeriodic::userInfoStructArray Struct Reference

Public Attributes

- [userInfoStruct](#) **array** [NUM_ELEMENTS]

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

- `/home/andrew/epicsqt/framework/widgets/QEPeriodic/QEPeriodic.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/andrew/epicsqt/framework/widgets/include/ContainerProfile.h
- /home/andrew/epicsqt/framework/widgets/src/ContainerProfile.cpp

10.138 `userLevelSlot` Class Reference

Public Slots

- void **userChanged** (userLevels level)

Public Member Functions

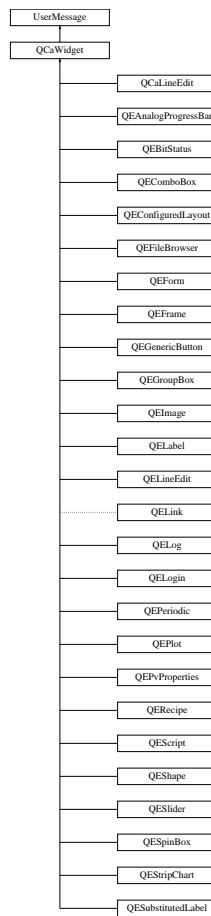
- void **setOwner** ([ContainerProfile](#) *ownerIn)

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

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

10.139 `UserMessage` Class Reference

Inheritance diagram for `UserMessage`:



Public Types

- enum **message_filter_options** { **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)

Friends

- class **UserMessageSlot**
- class **UserMessageSignal**

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

- /home/andrew/epicsqt/framework/widgets/include/UserMessage.h
- /home/andrew/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)

Public Member Functions

- 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/andrew/epicsqt/framework/widgets/include/UserMessage.h
- /home/andrew/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)

Public Member Functions

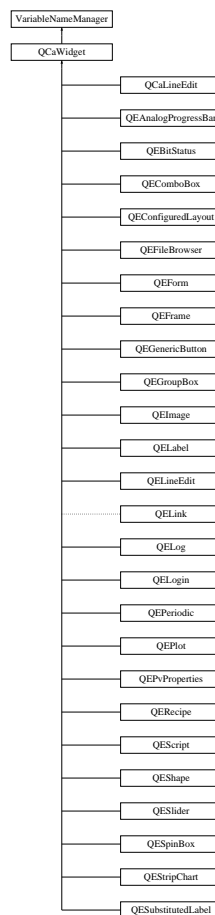
- void **setOwner** ([UserMessage](#) *ownerIn)

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

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

10.142 VariableNameManager Class Reference

Inheritance diagram for VariableNameManager:



Public Member Functions

- void **variableNameManagerInitialise** (unsigned int numVariables)

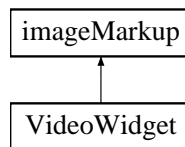
- QString **getOriginalVariableName** (unsigned int variableIndex)
- QString **getVariableNameSubstitutions** ()
- QString **getSubstitutedVariableName** (unsigned int variableIndex)
- void **initialiseVariableNameSubstitutions** (const QString &substitutions)
- void **setVariableNameSubstitutionsOverride** (const QString &substitutions)
- void **setVariableName** (const QString &variableName, unsigned int variableIndex)
- void **setVariableNameSubstitutions** (const QString &substitutions)
- QString **substituteThis** (const QString string)

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

- /home/andrew/epicsqt/framework/widgets/include/VariableNameManager.h
- /home/andrew/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)
- void **resizeEvent** (QResizeEvent *event)
- void **markupSetCursor** (QCursor cursor)
- void **markupAction** (markupIds mode, QPoint point1, QPoint point2)

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

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

10.144 QEPvProperties::WidgetHolder Struct Reference

Public Attributes

- QVBoxLayout * **layout**
- QComboBox * **box**
- QLabel * **timeStamp**
- QTableWidgetItem * **table**

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

- /home/andrew/epicsqt/framework/widgets/QEPvProperties/QEPvProperties.h

10.145 WidgetRef Class Reference

Public Member Functions

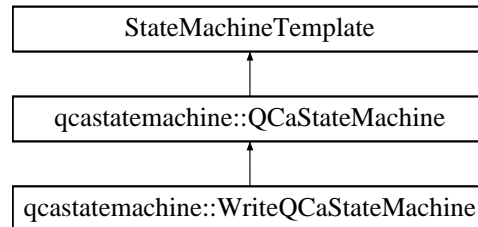
- **WidgetRef** (QCaWidget *refIn)
- QCaWidget * **getRef** ()

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

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

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

10.147 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/andrew/epicsqt/framework/widgets/QEImage/zoomMenu.h
- /home/andrew/epicsqt/framework/widgets/QEImage/zoomMenu.cpp