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QEDateTime Widget

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# Introduction

This document describes in detail the QEDateTime widget which is a non-EPICS aware widget provided by the EPICS Qt, aka QE, Framework.

This document was created as a separate widget specification document. The main reason for this is ease of maintenance and avoiding editing large and unwieldly word documents.

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# Description

The QEDateTime widget provides textual information about the current date and time based on Qlabel widget with the features of QDateTime class in Qt.

# Properties

The QEDateTime inherits directly from QLabel and as such inherits all of its properties. The widget has the following class specific properties.

## dateTimeFormat: QString

This defines the display format of current date time information.

*default value:* "yyyy-MM-dd hh:mm:ss" 

Refer to: the method toString(const QString &format) of QDateTime Class in the Qt documentation.

## timeZone: Qt::TimeSpec

This defines the selection of time zones that apply to the date time information displayed.

Qt date type definition: enum TimeSpec { LocalTime, UTC, OffsetFromUTC, TimeZone }

*default value:* Qt::LocalTime

Note: the widget just uses LocalTime and UTC only for the simplicity. See the below screen shots.

## bool : showZone

This defines the hide/show of the time zone information.

*default value:* False  