QEDateTime Widget

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QEDistribution Widget Specification

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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http://www.gnu.org/licenses/lgpl-3.0-standalone.html

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.
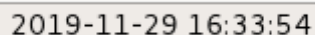
Properties

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"   `2019-11-29 16:33:54`

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 }
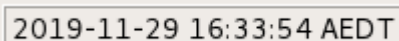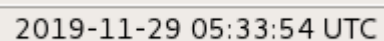
default value: Qt::LocalTime

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   `2019-11-29 16:33:54 AEDT`   `2019-11-29 05:33:54 UTC`