
QTango:

a Qt and Tango framework

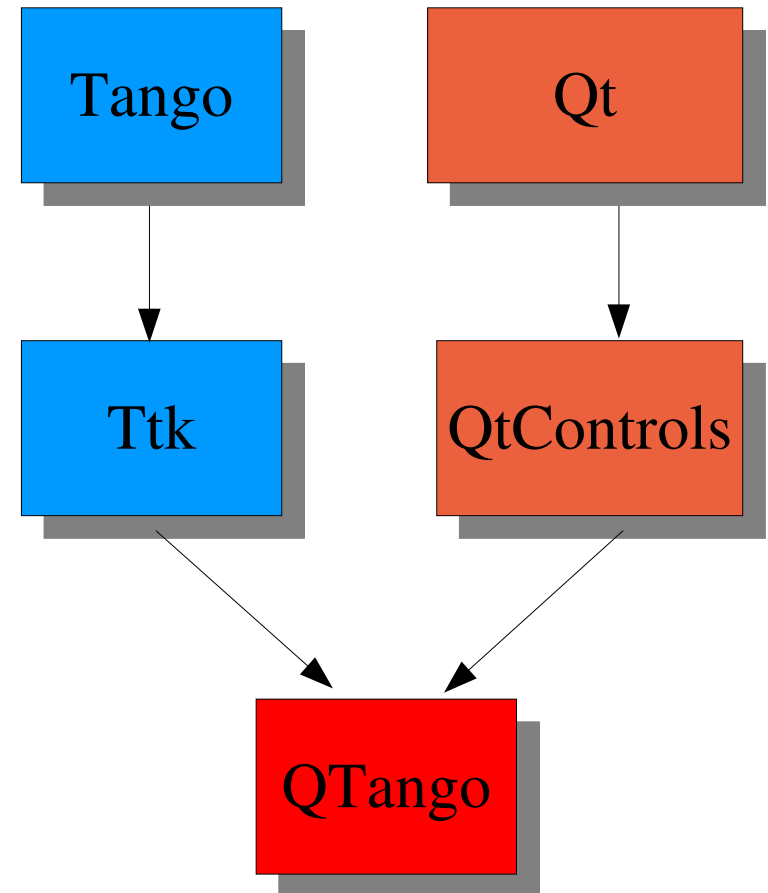
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QTango: What is it?

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- Goal: integrate Tango and Qt:
- Qtango is Built on top of 2 libs:
 - Ttk: C++ lib that manages proxies and reading threads;
 - QtControls: Qt lib of custom widgets.



QTango: What is it? (2)

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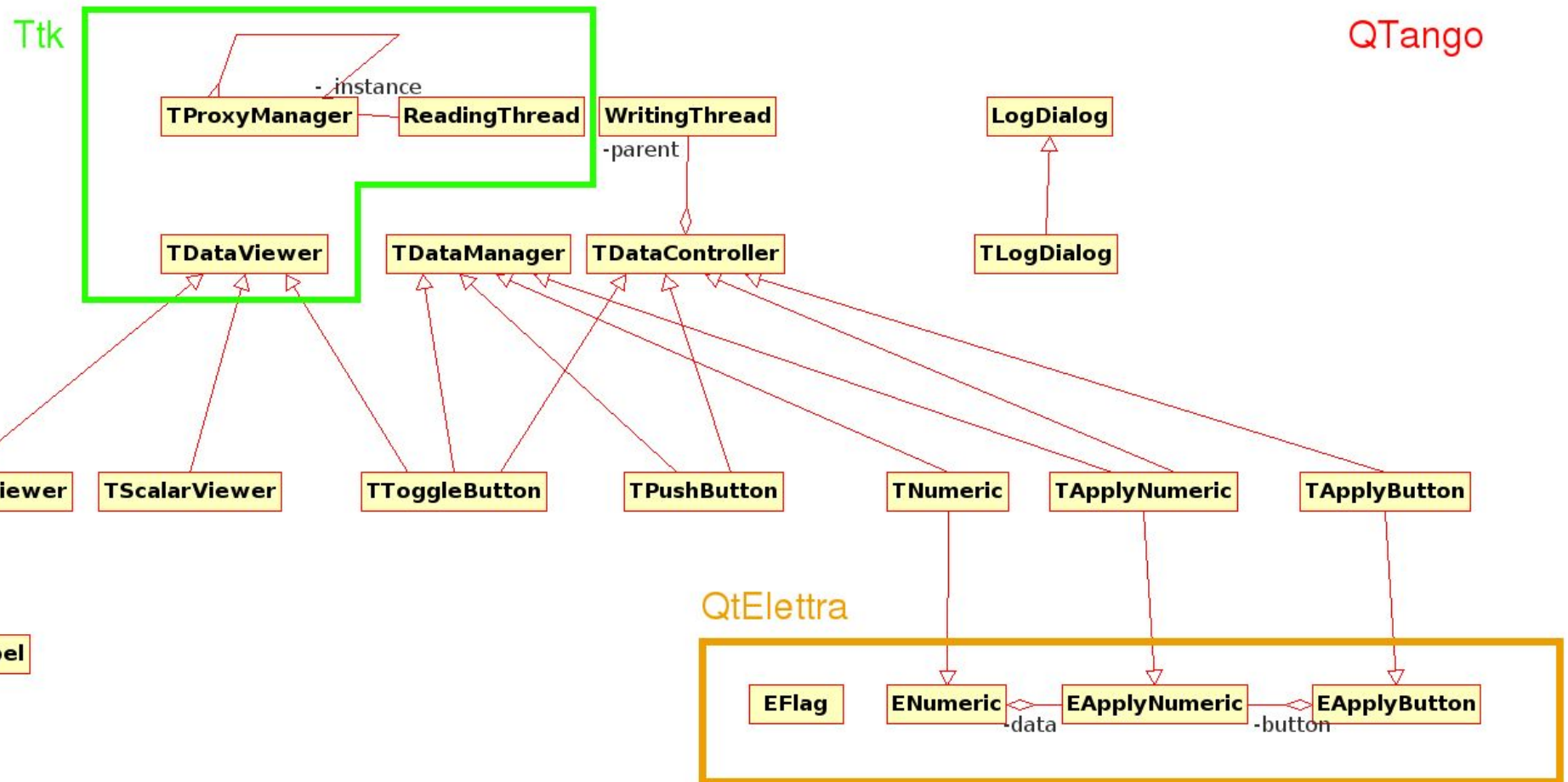


➤ QTango features:

- manages connections to devices;
- manages reading and writing threads;
- automatically subscribes to events or polls attributes
- polls commands with return value (and eventually an input value)
- configurable polling period for each attribute/command polled;
- includes a set of custom widgets to read/write attributes/commands;
- automatically manages logs.

QTango: UML model

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QTango: Usage

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› Integration with Qt designer:



Error Log

Time	Origin	Reason	Severity	Description
Thu May 19 14:28:34 2005	Connection::connect	API_CantConnectToDevice	ERROR	Failed to connect to device tang
Thu May 19 14:28:34 2005	Connection::connect	API_CorbaException	ERROR	TRANSIENT CORBA system exce
Thu May 19 14:28:34 2005	DeviceProxy::read_attribute()	API_AttributeFailed	ERROR	Failed to read_attribute on devic
Thu May 19 14:28:34 2005	DeviceProxy::read_attribute()	API_CommunicationFailed	ERROR	Failed to read_attribute on devic
Thu May 19 14:28:34 2005	DeviceProxy::read_attribute()	API_CorbaException	ERROR	COMM_FAILURE CORBA system
Thu May 19 14:28:35 2005	Connection::command_inout()	API_CommunicationFailed	ERROR	Failed to execute command_ino
Thu May 19 14:28:35 2005	Connection::command_inout()	API_CorbaException	ERROR	TRANSIENT CORBA system exce
Thu May 19 14:28:36 2005	Connection::command_inout()	API_CommandFailed	ERROR	Failed to execute command_ino
Thu May 19 14:28:36 2005	Connection::connect	API_CantConnectToDevice	ERROR	Failed to connect to device tang
Thu May 19 14:28:36 2005	Connection::connect	API_CorbaException	ERROR	TRANSIENT CORBA system exce

OK

› Sample application with log window:

Unknown
175
133
True
+ 0 0 . 0 APPLY

QTango: TODO

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- Lots of widgets, especially for spectrum controllers;
- support for asynch calls;
- QTango is currently a beta version, so it needs a lot of debug and testing;
- any suggestion is welcome.

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Thanks to:
Claudio Scafuri