Aerotech Tango Classes are intended to interface A3200 and Ensemble Drivers in a generic way. They have been designed to offer basic positioning functions.

They offer a simple generic interface for both A3200 and Ensemble.

See also « Installation and Configuration of the device Ensemble.pdf » which can be simply adapted for A3200

## Prerequites:

You need to have basic knowledge of Tango

You need to have Tango installed on the computer, and running

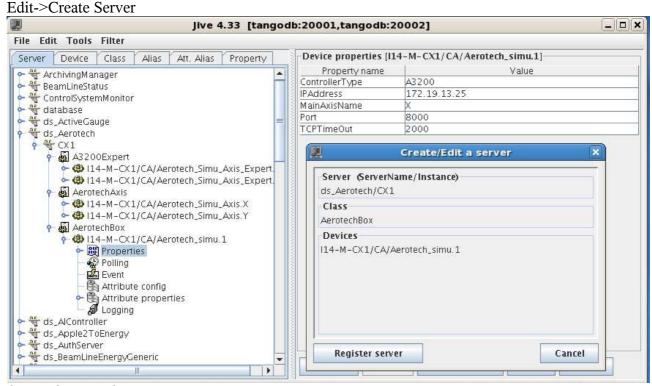
You need to have a knowledge of the controller you want to interface

## The rule is:

## for 1 Aerotech controller:

- 1 AerotechBox,
- and as much AerotechAxis as you have Axes : for the following example, there is 2 axes handled by the controller
- If you need the specific functions, add as much xxxxxxExpert as you need

First you must declare an AerotechBox in Tango: use Jive in rw mode



fill the fields to fit the names you want to see

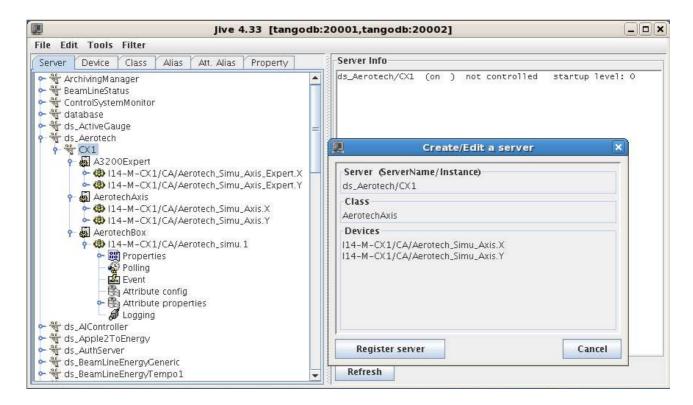
then, select in Jive the instance name (here, CX1) and then right click -> Add Class Jive 4.33 [tangodb:20001,tangodb:20002] File Edit Tools Filter Server Info Server Device Class Alias Att. Alias Property ArchivingManager
BeamLineStatus
ControlSystemMonitor
database ds\_Aerotech/CX1 (on ) not controlled startup level: 0 🕶 🏰 ds\_ActiveGauge ds\_Aerotech Rename Delete n\_Simu\_Axis\_Expert.X Add class n\_Simu\_Axis\_Expert.Y 📍 🖣 Test admin server n\_Simu\_Axis.X Save server data n\_Simu\_Axis.Y Classes wizard **Unexport devices** n\_simu.1 Devices dependencies Polling threads manager Move server Attribute properties
Logging ds\_AlController
ds\_Apple2ToEnergy
ds\_AuthServer

Refresh

Fill the fields as required

# ds\_BeamLineEnergyGeneric

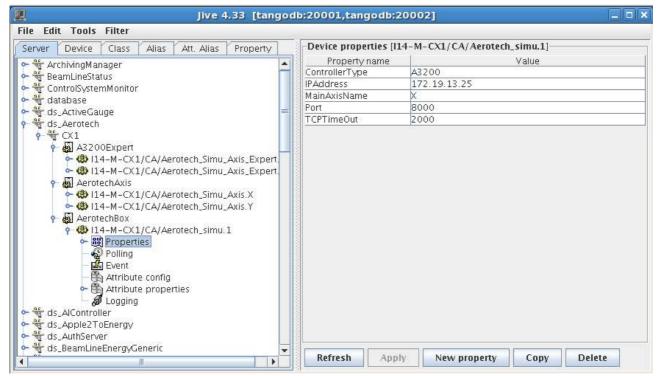
ds\_BeamLineEnergyTempo1



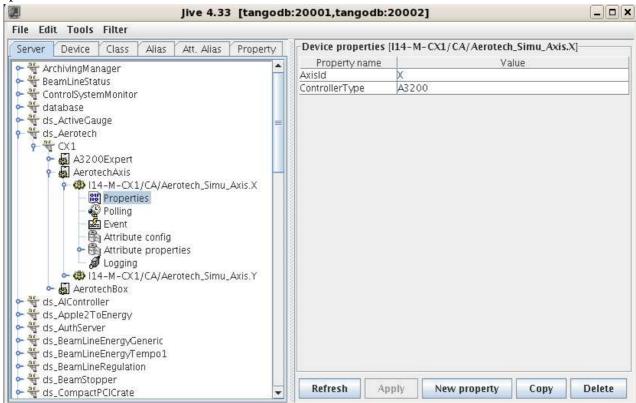
Then do the same for (A3200 Expert) or (EnsembleExpert) function of the drivers you have

You can create the necessary properties from different ways:

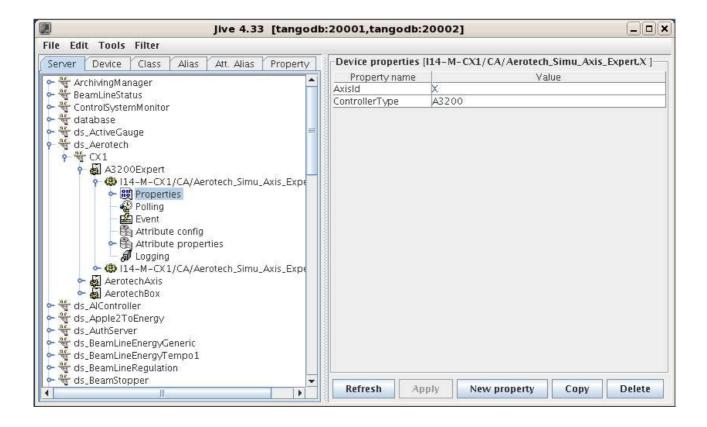
- use ASTOR and the wizzard
- use Jive-rw and create properties with the « New Property » button
- start the device server on command line, it will create the properties with default values that you will adapt to your needs



repeat for each axis



and finally for each xxxxxExpert



## Use of the Different classes:

Use AerotechBox for general Aerotech Controller purposes like Reset, SaveInFlash...

Use AerotechAxis to control the positioning : use the R/W attributes to go to position, change velocity,...

use commands Enable/Disable to switch ON/OFF the power amplifier, ...

Use xxxxxxExpert to get/set expert values like arbitrary registers, soft limits, homing parameters,... Use the Tango mailing list to report bugs and have best-effort support Feedback will be appreciated

hope it helps,

jean

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