



TANGO
Device
Server

AlimLT2 User's Guide

CorrecteurLT2 Class

Revision: release_1_0_2 - Author: coquet
Implemented in C++

Introduction:

Interface utilisateur des alimentations des correcteurs LT2 Dserver d'interface des alimentations des correcteurs LT2. Utilise les services de PhoenixInlineLT2, esclave Profibus regroupant les 10 alimentations

Class Inheritance:

- Tango::Device_3Impl
 - CorrecteurLT2

Properties:

Device Properties		
Property name	Property type	Description
PortNumber	Tango::DEV_LONG	Numero de port de l'alimentation correcteur 1 a 12 default : 1
Url	Tango::DEV_STRING	Nom tango du device AlimLT2 d'interfacage i½ l'alimentation default : tango/alimentation/1
CurrentSetpointRatio	Tango::DEV_DOUBLE	Ratio i½ appliquer pour passer de la consigne r½elle (flottant, double p½cision) i½ la consigne brute (en 15 bits) a fournir a l'alimentation
CurrentMeasureRatio	Tango::DEV_DOUBLE	Ratio i½ applquer pour passer de la mesure brute fournie par l'alimentation i½ la valeur r½elle en flottant, double p½cision
VoltageMeasureRatio	Tango::DEV_DOUBLE	Ratio i½ applquer pour passer de la mesure brute fournie par l'alimentation i½ la valeur r½elle (flottant, double p½cision

Device Properties Default Values:

Property Name	Default Values
PortNumber	No default value
Url	No default value
CurrentSetpointRatio	No default value
CurrentMeasureRatio	No default value
VoltageMeasureRatio	No default value

There is no Class properties.

States:

States

Names	Descriptions
UNKNOWN	pas de liaison a AlimLT2
ON	alimentation sous tension, OK
OFF	Alimentation arretee OK
FAULT	Alimentation en default grave
ALARM	Alimentation en alarme, default non bloquant
STANDBY	

Attributes:

Scalar Attributes

Attribute name	Data Type	R/W Type	Expert
current: courant en lecture : mesure, ecriture : consigne	DEV_DOUBLE	READ_WRITE	No
voltage: tension lue sur le correcteur	DEV_DOUBLE	READ	No
PowerSupplyStatus: status brut des correcteurs	DEV_SHORT	READ	No
currentSetpoint	DEV_DOUBLE	READ	No

Commands:

More Details on commands...

Device Commands for Operator Level

Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING
On	DEV_VOID	DEV_VOID
Off	DEV_VOID	DEV_VOID
Reset	DEV_VOID	DEV_VOID

1 - Init

- **Description:** This commands re-initialise a device keeping the same network connection.
After an Init command executed on a device, it is not necessary for client to re-connect to the device.
This command first calls the *delete_device()* method and then execute its *init_device()* method.
For C++ device server, all the memory allocated in the *nit_device()* method must be freed in the *delete_device()* method.
The language device desctructor automatically calls the *delete_device()* method.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_VOID : none.
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
 - Tango::STANDBY

2 - State

- **Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_STATE : State Code
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
 - Tango::STANDBY

3 - Status

- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
CONST_DEV_STRING : Status description
- **Command allowed for:**
 - Tango::UNKNOWN

- Tango::ON
- Tango::OFF
- Tango::FAULT
- Tango::ALARM
- Tango::STANDBY

4 - On

- **Description:**
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
 - Tango::STANDBY

5 - Off

- **Description:**
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
 - Tango::STANDBY

6 - Reset

- **Description:** The way to issue a Reset is the to issue an Off(), then On() command
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

- Tango::UNKNOWN
- Tango::ON
- Tango::OFF
- Tango::FAULT
- Tango::ALARM
- Tango::STANDBY

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Status	DEV_VOID	CONST_DEV_STRING
On	DEV_VOID	DEV_VOID
Off	DEV_VOID	DEV_VOID
Reset	DEV_VOID	DEV_VOID

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 - Tango::OFF
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- **Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
DEV_STATE : State Code
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
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- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
CONST_DEV_STRING : Status description
- **Command allowed for:**
 - Tango::UNKNOWN

- Tango::ON
- Tango::OFF
- Tango::FAULT
- Tango::ALARM
- Tango::STANDBY

4 - On

- **Description:**
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
 - Tango::STANDBY

5 - Off

- **Description:**
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
 - Tango::STANDBY

6 - Reset

- **Description:** The way to issue a Reset is the to issue an Off(), then On() command
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

- Tango::UNKNOWN
- Tango::ON
- Tango::OFF
- Tango::FAULT
- Tango::ALARM
- Tango::STANDBY

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AlimLT2

Device Commands Description

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2 - State

- **Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.

- **Argout:**
DEV_STATE : State Code

- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
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 - Tango::ALARM
 - Tango::STANDBY

3 - Status

- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.

- **Argin:**
DEV_VOID : none.

- **Argout:**
CONST_DEV_STRING : Status description

- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
 - Tango::STANDBY

4 - On

- **Description:**

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT

- Tango::ALARM
- Tango::STANDBY

5 - Off

- **Description:**
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
 - Tango::STANDBY

6 - Reset

- **Description:** The way to issue a Reset is the to issue an Off(), then On() command
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM
 - Tango::STANDBY