



TANGO
Device
Server

AlimLT1

User's Guide

AlimPort Class

Revision: release_1_0_0 - Author: coquet
Implemented in C++

Introduction:

Dserver utilisateur de AlimLT1

Class Inheritance:

- Tango::Device_3Impl
 - AlimPort

Properties:

Device Properties

Property name	Property type	Description
PortNumber	Tango::DEV_LONG	Numero de port de l'alimentation principale 1 = dipole 2..8 = Qpoles default : 2 (le premier QPole
Url	Tango::DEV_STRING	Nom tango du device AlimLT1 d'interfacage i½ l'alimentation default : tango/alimentation/1
CurrentSetpointRatio	Tango::DEV_DOUBLE	Ratio i½ appliquer pour passer de la consigne r½elle (flottant, double precision) 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 precision
VoltageMeasureRatio	Tango::DEV_DOUBLE	Ratio i½ appliquer pour passer de la mesure brute fournie par l'alimentation i½ la valeur r½elle (flottant, double precision

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 AlimLT1
ON	alimentation sous tension, OK
OFF	Alimentation arretee OK
FAULT	Alimentation en default grave
ALARM	Alimentation en alarme, default non bloquant

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 l'alimentation	DEV_DOUBLE	READ	No
statusBrut: status brut de l'alimentation	DEV_SHORT	READ	No
setpoint: readback of the setpoint in the BMC-8 slave	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 device *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

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

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

4 - On

- **Description:** mise sous tension de l'alimentation
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF

- Tango::FAULT
- Tango::ALARM

5 - Off

- **Description:** mise hors tension de l'alimentation

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**

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

6 - Reset

- **Description:** reset default sur l'alimentation (commande sur l'esclave meme, pas le Dserver

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**

- Tango::OFF
- Tango::FAULT
- Tango::ALARM

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Device Properties Default Values:

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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

1 - Init

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- Tango::OFF
- Tango::FAULT
- Tango::ALARM

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

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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

4 - On

- **Description:** mise sous tension de l'alimentation
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF

- Tango::FAULT
- Tango::ALARM

5 - Off

- **Description:** mise hors tension de l'alimentation

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**

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

6 - Reset

- **Description:** reset default sur l'alimentation (commande sur l'esclave meme, pas le Dserver

- **Argin:**
DEV_VOID :

- **Argout:**
DEV_VOID :

- **Command allowed for:**

- Tango::OFF
- Tango::FAULT
- Tango::ALARM

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[Link to Non-frame version.](#)



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Device Commands Description

AlimPort Class

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DEV_VOID : none.
- **Command allowed for:**
 - Tango::UNKNOWN
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM

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

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

4 - On

- **Description:** mise sous tension de l'alimentation
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM

5 - Off

- **Description:** mise hors tension de l'alimentation
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM

6 - Reset

- **Description:** reset default sur l'alimentation (commande sur l'esclave meme, pas le Dserver
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::OFF
 - Tango::FAULT
 - Tango::ALARM

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