



**TANGO
Device
Server**

PhoenixInlineLT1 User's Guide

CorrecteurLT1 Class

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

Introduction:

Dserver utilisateur de PhoenixInlineLT1. PhoenixInlineLT1 separe les donnees de l'alimentation en 2 groupes de 8 alimentations principales : port1 = dipole port2..port8 = Qpoles 12 alimentations de correcteurs. Ce server propose l'interface avec les 8 alimentations principales

Class Inheritance:

- Tango::Device_3Impl
 - CorrecteurLT1

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 PhoenixInlineLT1 d'interfacage i _c /2 l'alimentation default : tango/alimentation/1
CurrentSetpointRatio	Tango::DEV_DOUBLE	Ratio i _c /2 applquer pour passer de la consigne r _i /2elle (flottant, double p _r i _c /2cision) i _c /2 la consigne brute (en 15 bits) a fournir a l'alimentation
CurrentMeasureRatio	Tango::DEV_DOUBLE	Ratio i _c /2 applquer pour passer de la mesure brute fournie par l'alimentation i _c /2 la valeur r _i /2elle en flottant, double p _r i _c /2cision
VoltageMeasureRatio	Tango::DEV_DOUBLE	Ratio i _c /2 applquer pour passer de la mesure brute fournie par l'alimentation i _c /2 la valeur r _i /2elle (flottant, double p _r i _c /2cision

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 PhoenixInlineLT1
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	DEV_DOUBLE	READ_WRITE	No
voltage: tension	DEV_DOUBLE	READ	No
powerSupplyStatus	DEV_SHORT	READ	Yes
currentSetpoint	DEV_DOUBLE	READ	Yes

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

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
 - 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

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Command name	Argument In	Argument Out
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Status	DEV_VOID	CONST_DEV_STRING
On	DEV_VOID	DEV_VOID
Off	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
 - 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

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PhoenixInlineLT1

Device Commands Description

CorrecteurLT1 Class

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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
 - 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
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