



TANGO
Device
Server

Linac Interlock on synchrotron overcurrent User's Guide

LinacSYItk Class

Revision: - Author: chaize
Implemented in C++ - CVS repository: ESRF

Introduction:

this class interfaces the Wago module which interlocks the linac if the synchrotron current is over a predefined limit. It gives the state of the interlock, the measured current and count the number of events

Class Inheritance:

- Tango::Device_4Impl
 - LinacSYItk

Class Description:

this class interfaces the Wago module which interlocks the linac if the synchrotron current is over a predefined limit. It gives the state of the interlock, the measured current and count the number of events

Properties:

Device Properties		
Property name	Property type	Description
Plc_device	Tango::DEV_STRING	name of the PLCmodbus object
MAPerBit	Tango::DEV_DOUBLE	number of mA per bit for the SY current measurement

Device Properties Default Values:

Property Name	Default Values
Plc_device	elin/wago/syitlk
MAPerBit	1

There is no Class properties.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
SyCurrent	DEV_DOUBLE	READ	No
Interlock	DEV_BOOLEAN	READ	No
Count	DEV_USHORT	READ	No
Syct_range	DEV_BOOLEAN	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

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:**

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:**

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:**

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