



TANGO
Device
Server

Bpss Tunning User's Guide

BpssTunning Class

Revision: BpssTunning-Release_1_3 - Author: verdier
Implemented in C++ - CVS repository: ESRF

Introduction:

Read a Vdsp71Wrapper device to tune ESRF booster power supply system.

Class Inheritance:

- Tango::Device_4Impl
 - BpssTunning

Properties:

Device Properties		
Property name	Property type	Description
ReferenceFile	Tango::DEV_STRING	SY Tune reference file name
ReferencePath	Tango::DEV_STRING	Path to find reference file.

Device Properties Default Values:

Property Name	Default Values
ReferenceFile	TuneRef
ReferencePath	/operation/dserver/settings/bpss

There is no Class properties.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
EnergyTime: Time after t0, to compute energy.	DEV_DOUBLE	READ_WRITE	No
EnergyValue: Energy calculated at t0 plus EnergyTime	DEV_DOUBLE	READ	No
BpssPeriod: Bpss measured period	DEV_DOUBLE	READ	No

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
Horizontal: Horizontal SY tune calculated.	DEV_DOUBLE	512	No
Vertical: Vertical SY tune calculated.	DEV_DOUBLE	512	No
HorizontalReference: Horizontal SY tune reference.	DEV_DOUBLE	512	No
VerticalReference: Vertical SY tune Reference.	DEV_DOUBLE	512	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

Device Commands for Expert Level Only		
Command name	Argument In	Argument Out
SaveAsReference	DEV_VOID	DEV_VOID
ReadReferenceFile	DEV_STRING	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:**

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:**

4 - SaveAsReference (for expert only)

- **Description:**
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

5 - ReadReferenceFile (for expert only)

- **Description:** Read the specified reference file. If argin is empty, read the file specified in property.
- **Argin:**
DEV_STRING : Reference file name.
If empty, read the file specified in property.
- **Argout:**
DEV_VOID :
- **Command allowed for:**

TANGO is an open source project hosted by :
SOURCEFORGE.NET®

Core and Tools : CVS repository on tango-cs project
Device Servers : CVS repository on tango-ds project