

Booster Sextupoles master User's Guide

SySextupoles Class

Revision: SySextupoles-Release_1_1 - Author: bourtemb Implemented in C++ - CVS repository: ESRF

Introduction:

This class will control the 2 sextupoles channels (On, Off, Reset commands), will manage the operation files and will update the period value of the sextupole driver (read on BPSS).

Class Inheritance:

Tango::Device_4Impl
SySextupoles

Class Description:

This class will control the 2 sextupoles channels (On, Off commands), will manage the operation files and will update the T0 period value of the sextupole driver (read on BPSS).

Properties:

Device Properties					
Property name	Property type	Description			
Focusing_device	Tango::DEV_STRING	Name of the focusing device.			
Defocusing_device	Tango::DEV_STRING	Name of the defocusing device.			
Dirname	Tango::DEV_STRING	The operation files for the booster sextupoles will be loaded and saved in that directory and its subfolders.			

Device Properties Default Values:

Property Name	Default Values	
Focusing_device	sy/ps-sext/focusing	
Defocusing_device	sy/ps-sext/defocusing	
Dirname	/operation/dserver/java/appli/sextupole/settings	

There is no Class properties.

Attributes:

Scalar Attributes					
Attribute name	Data Type	R/W Type	Expert		
File: operation file loaded.	DEV_STRING	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			
Start	DEV_VOID	DEV_VOID			
Stop	DEV_VOID	DEV_VOID			
Reset	DEV_VOID	DEV_VOID			
LoadFile	DEV_STRING	DEV_VOID			
ReadDirName	DEV_VOID	DEV_STRING			
SaveFile	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 - Start

- **Description:** switch on the 2 booster sextupoles power supply channels.
- Argin: DEV_VOID :
- Argout: DEV_VOID :
- Command allowed for:

5 - Stop

- **Description:** switch off the 2 booster sextupoles power supply channels.
- Argin: DEV_VOID :
- Argout: DEV_VOID :
- Command allowed for:

6 - Reset

- **Description:** Reset the booster sextupoles power supply channels.
- Argin: DEV_VOID :

- Argout: DEV_VOID :
- Command allowed for:

7 - LoadFile

- **Description:** Load the configuration file given in argument.
- Argin: DEV_STRING : File name (with full path)
- Argout: DEV_VOID :
- Command allowed for:

8 - ReadDirName

- **Description:** Command to retrieve the name of the directory under which the sy sextupoles configuration files are loaded and saved.
- Argin: DEV_VOID :
- Argout: DEV_STRING : The name of the directory under which the files are load and saved.
- Command allowed for:

9 - SaveFile

- **Description:** This command will save all the present settings in a file. The argin is the name of the file. It's a relative pathname. For example, if 'test/economy' is given in argin, the file will be saved in dirname/test/economy. dirname is the dirname property of the server. You can use the command readDirName to know the value of dirname.
- Argin: DEV_STRING : Name of the file (relative to dirname property)
- Argout: DEV_VOID :
- Command allowed for:



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