BeamImageAnalyzerTest User's Guide

BeamImageAnalyzerTest Class

Revision: release_1_0_1 - Author: julien_malik
Implemented in C++

Introduction:

Class Inheritance:

- Tango::Device_3Impl
  - BeamImageAnalyzerTest

Properties:

There is no Class properties.
There is no Device Properties.

States:

States	
Names	**Descriptions**
RUNNING	*
FAULT	

Attributes:

Scalar Attributes			
Attribute name	**Data Type**	**R/W Type**	**Expert**
ImageSizeX: the width of the output image	DEV_LONG	READ_WRITE	No
ImageSizeY: the height ofthe output image	DEV_LONG	READ_WRITE	No
mX: the mean x-coordinate of the gaussian distribution	DEV_DOUBLE	READ_WRITE	No
mY: the mean y-coordinate of the gaussian distribution	DEV_DOUBLE	READ_WRITE	No
sXX: the covariance against x axis of the gaussian distribution	DEV_DOUBLE	READ_WRITE	No
sXY: the correlation between x and y axis of the gaussian distribution	DEV_DOUBLE	READ_WRITE	No
sYY: the covariance against y axis of the gaussian distribution	DEV_DOUBLE	READ_WRITE	No
A	DEV_DOUBLE	READ_WRITE	No
GaussianNoiseLevel: the standard deviation of the gaussian noise added to the theorical gaussian image	DEV_DOUBLE	READ_WRITE	No
SaltAndPepperNoiseLevel: the amount of salt and pepper noise added to the theorical gaussian image	DEV_DOUBLE	READ_WRITE	No

Image Attributes				
Attribute name	**Data Type**	**X Data Length**	**Y Data Length**	**Expert**
Image: the output image	DEV_USHORT	131072	131072	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:**
- Tango::RUNNING
- Tango::FAULT

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::RUNNING
- Tango::FAULT

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::RUNNING
- Tango::FAULT

ESRF - Software Engineering Group

Frame Alert

This document is designed to be viewed using the frames feature. If you see this message, you are using a non-frame-capable web client.
Link to Non-frame version.

BeamImageAnalyzerTest
Device Commands Description
BeamImageAnalyzerTest Class

Revision: release_1_0_1 - Author: julien_malik

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::RUNNING
  - Tango::FAULT

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::RUNNING
  - Tango::FAULT

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::RUNNING
  - Tango::FAULT

ESRF - Software Engineering Group