

## ImgFileReader Tango Cpp Class

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### ImgFileReader Class Identification :

Contact : at null - null  
 Class Family :  
 Platform :  
 Bus :  
 Manufacturer :  
 Manufacturer ref. :

### ImgFileReader Class Inheritance :

- [Tango::DeviceImpl](#)
  - ImgFileReader

### ImgFileReader Class Description :

The device reads a 8-bit graphic file and provides an Tango attribute containing its data. If it is a RGB file, it is automatically converted to grayscale.

It supports the following file formats :

- Windows Bitmaps - BMP, DIB
- Portable image format - PBM, PGM, PPM
- Sun rasters - SR, RAS (only uncompressed)
- TIFF files - TIFF, TIF (uncompressed, packbits, jpeg, zip)
- JPEG files - JPEG, JPG, JPE
- Portable Network Graphics - PNG

**ImgFileReader Properties :**

**There is no class properties**

**There is no device properties**

ImgFileReader Class Commands				
Name	Input type	Output type	Level	Description
<a href="#">State</a>	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its <i>device_state</i> data member) and returns it to the caller.
<a href="#">Status</a>	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller.

**Command State :**

This command gets the device state (stored in its *device\_state* data member) and returns it to the caller.

State Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::DEV_STATE	State Code
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..

Command allowed for	All states	..

### **Command Status :**

This command gets the device status (stored in its *device\_status* data member) and returns it to the caller.

<b>Status Definition</b>		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::CONST_DEV_STRING	Status description
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

<b>ImgFileReader Class Attributes</b>							
<b>Name</b>	<b>Inherited</b>	<b>Abstract</b>	<b>Attr. type</b>	<b>R/W type</b>	<b>Data type</b>	<b>Level</b>	<b>Description</b>
<a href="#">filename</a>	false	false	Scalar	WRITE	Tango::DEV_STRING	OPERATOR	the complete path to the file to read
<a href="#">diffractionFilename</a>	false	false	Scalar	WRITE	Tango::DEV_STRING	OPERATOR	Diffraction image file name
<a href="#">image</a>	false	false	Image	READ	Tango::DEV_UCHAR	OPERATOR	Image
<a href="#">diffractionImage</a>	false	false	Image	READ	Tango::DEV_ULONG	OPERATOR	Diffraction Image

**There is no dynamic attribute defined.**

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**Attribute filename :**

the complete path to the file to read

Attribute Definition	
Attribute Type	Scalar
R/W Type	WRITE
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Write allowed for	All states

Attribute Properties	
label	File Name
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

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**Attribute diffractionFilename :**

Diffraction image file name

Attribute Definition	
Attribute Type	Scalar
R/W Type	WRITE
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Write allowed for	All states

Attribute Properties	
label	Diffraction File Name
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

### **Attribute image :**

Image

Attribute Definition	
Attribute Type	Image ( 131072 x 131072 )
R/W Type	READ
Data Type	Tango::DEV_UCHAR

Attribute Properties	
label	image
unit	
standard unit	
display unit	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set

Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	<ul style="list-style-type: none"> <li>• FAULT</li> </ul>

format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set
Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

### **Attribute diffractionImage :**

Diffraction Image

Attribute Definition	
Attribute Type	Image ( 100000 x 100000 )
R/W Type	READ
Data Type	Tango::DEV_ULONG
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read	All states

Attribute Properties	
label	Diffraction Image
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	

Attribute Event Criteria	
Periodic	Not set
Relative Change	Not set
Absolute Change	Not set
Archive Periodic	Not set
Archive Relative Change	Not set
Archive Absolute Change	Not set

allowed for | \_\_\_\_\_ |

delta_time	
delta_val	

Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

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<b>ImgFileReader Class States</b>	
<b>Name</b>	<b>Description</b>
RUNNING	The file has been read and processed succesfully
FAULT	An error occured, most probably the file does not exist at the specified path. The status provides more extensive information on the error