

## Matlab Tango Cpp Class

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### **Matlab Class Identification :**

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

### **Matlab Class Inheritance :**

- [Tango::DeviceImpl](#)
  - Sequencer
    - Matlab

### **Matlab Class Description :**

### **Matlab Properties :**

There is no class properties

Device Properties			
Name	Description	Type	Default Value
StartOptions	start options for matlab engine	String	none

Matlab 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.
<a href="#">Execute</a>	DEV_STRING	DEV_STRING	OPERATOR	None.
<a href="#">ExecuteAsync</a>	DEV_STRING	DEV_VOID	OPERATOR	None.
<a href="#">CreateData</a>	DEVVAR_STRINGARRAY	DEV_VOID	OPERATOR	None.
<a href="#">DeleteData</a>	DEV_STRING	DEV_VOID	OPERATOR	None.

### **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	true	..
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	..

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## **Command Execute :**

<b>Execute Definition</b>		
Input Argument	Tango::DEV_STRING	
Output Argument	Tango::DEV_STRING	
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"><li>• INIT</li><li>• RUNNING</li><li>• FAULT</li></ul>	..

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## **Command ExecuteAsync :**

<b>ExecuteAsync Definition</b>
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Input Argument	Tango::DEV_STRING	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> <li>• INIT</li> <li>• RUNNING</li> <li>• FAULT</li> </ul>	..

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**Command CreateData :**

<b>CreateData Definition</b>		
Input Argument	Tango::DEVVAR_STRINGARRAY	create a new data specify name and type
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

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**Command DeleteData :**

<b>DeleteData Definition</b>		
Input Argument	Tango::DEV_STRING	name of attribute to delete
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	false	..
Polling Period	Not polled	..

Command NOT allowed for	<ul style="list-style-type: none"> <li>• ON</li> <li>• RUNNING</li> <li>• FAULT</li> </ul>	..
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Matlab Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
<a href="#">DoubleData</a>	true	false	Spectrum	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
<a href="#">StringData</a>	true	false	Spectrum	READ_WRITE	Tango::DEV_STRING	OPERATOR	
<a href="#">CommandOutput</a>	true	false	Scalar	READ	Tango::DEV_STRING	OPERATOR	

**There is no dynamic attribute defined.**

**Attribute DoubleData :**

Attribute Definition	
Attribute Type	Spectrum ( 1000000 )
R/W Type	READ_WRITE
Data Type	Tango::DEV_DOUBLE
Display Level	OPERATOR
Inherited	true
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	<ul style="list-style-type: none"> <li>• INIT</li> <li>• RUNNING</li> <li>• FAULT</li> </ul>
Write allowed for	All states

Attribute Properties	
label	
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 StringData :**

Attribute Definition	
Attribute Type	Spectrum ( 1000000 )
R/W Type	READ_WRITE
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	true
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read NOT allowed for	<ul style="list-style-type: none"> <li>• INIT</li> <li>• RUNNING</li> <li>• FAULT</li> </ul>
Write allowed for	All states

Attribute Properties	
label	
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 CommandOutput :**

Attribute Definition	
Attribute Type	Scalar

Attribute Properties	
label	

Attribute Event Criteria	
Periodic	Not set
	Not

R/W Type	BEAD
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	true
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

unit
standard unit
display unit
format
max_value
min_value
max_alarm
min_alarm
max_warning
min_warning
delta_time
delta_val

Relative Change	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

Matlab Class States	
Name	Description
INIT	Sequencer is busy initialising
ON	Sequencer is idle, ready to execute commands
RUNNING	Sequencer is busy executing a command
FAULT	Sequencer is in disabled due to an error