

## MessageTrigger Tango Cpp Class

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### MessageTrigger Class Identification :

Contact : at synchrotron-soleil.fr - bureau  
Class Family : Process  
Platform : All Platforms  
Bus : Not Applicable  
Manufacturer : none  
Manufacturer ref. :

### MessageTrigger Class Inheritance :

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

### MessageTrigger Class Description :

reads attributes on device proxy by using a polled command. Each time a changement of the attribute value is detected, the device triggers the {talk} command of the TalkManager device. Actually, it is the interface between the TextTalker and a device which contains a attribute to evaluate as theTangoParser Device.

### MessageTrigger Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
MessageList	This property enclosed the list of attributes to evaluate and the true/false associated messages. the pattern of one element is: AttributeProxyName,message_if_condition_true,message_if_condition_false; (don't forget the ` ` at the end of the string !!!) If you don't want send a message even if the true / false condition occurred you have to fill the concerned field with ` NULL `	String[]	none
LastRecordedState	contains the last states of the attributes to control	double[]	none
TextTalkerProxyName	TextTalker device Proxy Name	String	none
ParserProxyName	Parser Device Proxy Name	String	none

MessageTrigger 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="#">Start</a>	DEV_VOID	DEV_VOID	EXPERT	Start the monitoring of target attributes defined in the MessageList property
<a href="#">Stop</a>	DEV_VOID	DEV_VOID	EXPERT	Stop the monitoring of target attributes defined in the MessageList property
<a href="#">Trigger</a>	DEV_VOID	DEV_VOID	OPERATOR	triggers the DevTalk command for each attribute of the messageList which has changed
<a href="#">ClearMessageListAttr</a>	DEV_VOID	DEV_VOID	EXPERT	clear the sentMessageList attribute

### **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	..

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### **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	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

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### **Command Start :**

Start the monitoring of target attributes defined in the MessageList property

<b>Start Definition</b>		
Input Argument	Tango::DEV_VOID	nothing
Output Argument	Tango::DEV_VOID	nothing
DisplayLevel	EXPERT	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..

Command allowed for	All states	..
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**Command Stop :**

Stop the monitoring of target attributes defined in the MessageList property

Stop Definition		
Input Argument	Tango::DEV_VOID	nothing
Output Argument	Tango::DEV_VOID	nothing
DisplayLevel	EXPERT	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

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**Command Trigger :**

triggers the DevTalk command for each attribute of the messageList which has changed

Trigger Definition		
Input Argument	Tango::DEV_VOID	nothing
Output Argument	Tango::DEV_VOID	nothing
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	2000	..
Command allowed for	All states	..

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**Command ClearMessageListAttr :**

clear the sentMessageList attribute

ClearMessageListAttr Definition		
Input Argument	Tango::DEV_VOID	nothing
Output Argument	Tango::DEV_VOID	nothing
DisplayLevel	EXPERT	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

MessageTrigger Class Attributes							
Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
<a href="#">sentMessageList</a>	false	false	Spectrum	READ	Tango::DEV_STRING	OPERATOR	list of sent messages to the TexTalkerDevice

**There is no dynamic attribute defined.**

**Attribute sentMessageList :**

list of sent messages to the TexTalkerDevice

Attribute Definition	
Attribute Type	Spectrum ( 10000 )
R/W Type	READ
Data Type	Tango::DEV_STRING
Display	

Attribute Properties	
label	sent message list
unit	
standard unit	
display unit	

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

Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

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

MessageTrigger Class States	
Name	Description
ON	The polling on the Trigger command is activated
OFF	The polling on the Trigger command is not activated
ALARM	communication with TextTalker is broken