





TANGO Device Server

Tango Device Server User's Guide

TangoParser Class

Revision: 1.16 - Author: slim_ayadi Implemented in Java

Introduction:

This device server class defines an attribute the value of which is an expression of other Tango attributes. The expression can be defined at runtime in a mathematical syntax.

Class Inheritance:

- fr.esrf.TangoDs.Device_Impl
 - TangoParser

Properties:

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

States:

States		
Names	Descriptions	
ALARM	Any of the attributes is in an ALARM state	
RUNNING	Internal polling of remote value is active	

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	
SetExpression	DEVVAR_STRINGARRAY	DEV_VOID	
EvaluateExpression	DEV_STRING	DEV_DOUBLE	
GetExpression	DEV_STRING	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::ALARMTango::RUNNING

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::ALARMTango::RUNNING

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::ALARMTango::RUNNING

4 - SetExpression

• **Description:** of a given output variable. An array of two string elements, the first is an output variable name, the second being\nits associated expression An array of two string elements, the first is an output variable name, the second being\nits associated expression

Argin: DEVVAR_STRINGARRAY: An array of two string elements, the first is an output variable name, the second being its associated expression **Argout: DEV_VOID**: Command allowed for: O Tango::ALARM ○ Tango::RUNNING **5 - EvaluateExpression Description:** Argin: **DEV_STRING**: • Argout: **DEV_DOUBLE**: Command allowed for: O Tango::ALARM ○ Tango::RUNNING 6 - GetExpression **Description:** expression is looked for. variable name for which the expression is looked for. **DEV_STRING**: variable name for which the expression is looked for. Argout: **DEV_STRING**: expression literal Command allowed for: O Tango::ALARM ○ Tango::RUNNING

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• Argin:

DEV_VOID: none.

• Argout:

DEV_VOID: none.

• Command allowed for:

Tango::ALARMTango::RUNNING

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::ALARMTango::RUNNING

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::ALARMTango::RUNNING

4 - SetExpression

- **Description:** of a given output variable. An array of two string elements, the first is an output variable name, the second being\nits associated expression An array of two string elements, the first is an output variable name, the second being\nits associated expression
- Argin:

DEVVAR_STRINGARRAY: An array of two string elements, the first is an output variable name, the second being its associated expression

• Argout:

DEV_VOID:

• Command allowed for:

Tango::ALARMTango::RUNNING

5 - EvaluateExpression

- Description:
- Argin:

DEV_STRING:

• Argout:

DEV_DOUBLE:

• Command allowed for:

Tango::ALARMTango::RUNNING

6 - GetExpression

• **Description:** expression is looked for. variable name for which the expression is looked for.

• Argin:

DEV_STRING: variable name for which the expression is looked for.

• Argout:

DEV_STRING: expression literal

• Command allowed for:

Tango::ALARMTango::RUNNING

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