



**TANGO
Device
Server**

Tango Device Server User's Guide

StateDiary Class

**Revision: 1.5 - Author: soleilarc
Implemented in Java**

Introduction:

This Device is a tool useful to archived the Alarm event and overpass event of an attribute.

Class Inheritance:

- fr.esrf.TangoDs.Device_Impl
 - StateDiary

Properties:

Device Properties

Property name	Property type	Description
RefreshingPeriod	Tango::DEV_SHORT	The refreshing period of the polling defined in millisecond.
SupervisedDeviceList	Array of string	This property make the device restart automatically the supervision of the device

There is no Class properties.

Attributes:

Scalar Attributes

Attribute name	Data Type	R/W Type	Expert
version	DEV_STRING	READ	No

Spectrum Attributes

Attribute name	Data Type	X Data Length	Expert
diaryEvent	DEV_STRING	10	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
SetRefreshingPeriod	DEV_LONG	DEV_VOID
GetStateField	DEV_VOID	DEVVAR_STRINGARRAY
AddDevices	DEVVAR_STRINGARRAY	DEV_VOID
DisableDevices	DEVVAR_STRINGARRAY	DEV_VOID
AcknowledgeState	DEV_LONG	DEV_VOID
RemoveDevices	DEVVAR_STRINGARRAY	DEV_VOID
EnableDevices	DEVVAR_STRINGARRAY	DEV_VOID
IsSupervised	DEVVAR_STRINGARRAY	DEVVAR_SHORTARRAY
IsDisabled	DEVVAR_STRINGARRAY	DEVVAR_SHORTARRAY
RequestEventBetweenDates	DEVVAR_STRINGARRAY	DEVVAR_STRINGARRAY
GetFieldsDescription	DEV_VOID	DEVVAR_STRINGARRAY

Device Commands for Expert Level Only

Command name	Argument In	Argument Out
ClearDiary	DEV_VOID	DEV_VOID
DeleteAlarms	DEVVAR_LONGARRAY	DEV_VOID
SelectAll	DEV_VOID	DEVVAR_STRINGARRAY
SelectOne	DEV_LONG	DEVVAR_STRINGARRAY
SelectLastAlarm	DEV_LONG	DEVVAR_STRINGARRAY
SelectFromDate	DEV_STRING	DEVVAR_STRINGARRAY

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:**

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:**

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:**

4 - SetRefreshingPeriod

- **Description:** This command modify the refreshing period device property.

- **Argin:**
DEV_LONG : the refreshing period defined in millisecond

- **Argout:**
DEV_VOID :

- **Command allowed for:**

5 - GetStateField

- **Description:** This command return the 14 possibles Tango state associated to the severity values.

- **Argin:**
DEV_VOID : return the different possible State

- **Argout:**
DEVVAR_STRINGARRAY :

- **Command allowed for:**

6 - AddDevices

- **Description:** This command add a list of a devices.
- **Argin:**
DEVVAR_STRINGARRAY : The list of the device's name
- **Argout:**
DEV_VOID :
- **Command allowed for:**

7 - DisableDevices

- **Description:** This command disables a list of a devices.
- **Argin:**
DEVVAR_STRINGARRAY : The list of the device's name
- **Argout:**
DEV_VOID :
- **Command allowed for:**

8 - AcknowledgeState

- **Description:**
- **Argin:**
DEV_LONG : The index of the state event
- **Argout:**
DEV_VOID :
- **Command allowed for:**

9 - RemoveDevices

- **Description:** This command remove a list of a devices
- **Argin:**
DEVVAR_STRINGARRAY : The list of the device's name
- **Argout:**
DEV_VOID :
- **Command allowed for:**

10 - EnableDevices

- **Description:** This command enables a list of a devices
- **Argin:**
DEVVAR_STRINGARRAY : The list of the device's name
- **Argout:**
DEV_VOID :
- **Command allowed for:**

11 - IsSupervised

- **Description:** This command give the supervision status of a list of attribute. If the result is 0, the associated attribute is not supervised, Else if the result is 1, the associated attribute is supervised.
- **Argin:**
DEVVAR_STRINGARRAY : The list of the device's name
- **Argout:**
DEVVAR_SHORTARRAY : The result list of the command
- **Command allowed for:**

12 - IsDisabled

- **Description:** This command give the disabled status of a list of attribute. If the result is 0, the associated attribute is not disabled, Else if the result is 1, the associated attribute is disabled.
- **Argin:**
DEVVAR_STRINGARRAY : The list of the device's name
- **Argout:**
DEVVAR_SHORTARRAY : The result list of the command
- **Command allowed for:**

13 - RequestEventBetweenDates

- **Description:** This command return the event diary list time stamped between the 2 defined date
- **Argin:**
DEVVAR_STRINGARRAY : The begin and the end date YYYY-MM-DD HH:MM:SS
- **Argout:**
DEVVAR_STRINGARRAY : The result of the query in string array format separated by ';' caracteres
- **Command allowed for:**

14 - GetFieldsDescription

- **Description:** This command return the name of the field present in the table
- **Argin:**
DEV_VOID :
- **Argout:**
DEVVAR_STRINGARRAY : The name of the field present in the table
- **Command allowed for:**

15 - ClearDiary (for expert only)

- **Description:** This command clear all the entry in the diary.
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

16 - DeleteAlarms (for expert only)

- **Description:**
- **Argin:**
DEVVAR_LONGARRAY :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

17 - SelectAll (for expert only)

- **Description:** This command return all the contains of the diary
- **Argin:**
DEV_VOID :
- **Argout:**
DEVVAR_STRINGARRAY :
- **Command allowed for:**

18 - SelectOne (for expert only)

- **Description:** This command return all the contains of the diary
- **Argin:**
DEV_LONG :
- **Argout:**
DEVVAR_STRINGARRAY :
- **Command allowed for:**

19 - SelectLastAlarm (for expert only)

- **Description:** This command return all the contains of the diary
- **Argin:**
DEV_LONG :
- **Argout:**
DEVVAR_STRINGARRAY :
- **Command allowed for:**

20 - SelectFromDate (for expert only)

- **Description:** This command return the event diary list time stamped between the 2 defined date
- **Argin:**
DEV_STRING : The begin and the end date YYYY-MM-DD HH:MM:SS
- **Argout:**
DEVVAR_STRINGARRAY :
- **Command allowed for:**

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Device Commands Description

StateDiary Class

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- **Description:** This command modify the refreshing period device property.
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DEV_VOID : return the different possible State
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- **Description:** This command add a list of a devices.
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- **Argout:**

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- **Command allowed for:**

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- **Argout:**
DEV_VOID :
- **Command allowed for:**

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- **Description:**
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- **Argout:**
DEV_VOID :
- **Command allowed for:**

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- **Description:** This command remove a list of a devices
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- **Command allowed for:**

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- **Description:** This command return the name of the field present in the table
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- **Command allowed for:**

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DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

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- **Description:**
- **Argin:**
DEVVAR_LONGARRAY :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

17 - SelectAll (for expert only)

- **Description:** This command return all the contains of the diary
- **Argin:**
DEV_VOID :
- **Argout:**
DEVVAR_STRINGARRAY :
- **Command allowed for:**

18 - SelectOne (for expert only)

- **Description:** This command return all the contains of the diary
- **Argin:**
DEV_LONG :
- **Argout:**
DEVVAR_STRINGARRAY :
- **Command allowed for:**

19 - SelectLastAlarm (for expert only)

- **Description:** This command return all the contains of the diary
- **Argin:**
DEV_LONG :
- **Argout:**
DEVVAR_STRINGARRAY :
- **Command allowed for:**

20 - SelectFromDate (for expert only)

- **Description:** This command return the event diary list time stamped between the 2 defined date
- **Argin:**
DEV_STRING : The begin and the end date YYYY-MM-DD HH:MM:SS
- **Argout:**
DEVVAR_STRINGARRAY :

- **Command allowed for:**

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