



TANGO
Device
Server

HDB signal control User's Guide

HdbSignalCtrl Class

Revision: HdbSignalCtrl-Release_1_1 - Author: verdier
Implemented in C++ - CVS repository: ESRF

Introduction:

This class is able to control if specified signals are written in TACO HDB

Class Inheritance:

- Tango::Device_4Impl
 - HdbSignalCtrl

Properties:

Device Properties		
Property name	Property type	Description
SignalList	Array of string	This is the list of signals to be controled. It is a list of two strings. The first one is the signal name. The seconde one is the delay in seconds to set an alarm if signal written.
HdbDevice	Tango::DEV_STRING	Hdb device to read last record.

Device Properties Default Values:

Property Name	Default Values
SignalList	No default value
HdbDevice	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	Specified signals are written in HDB
ALARM	At least one signal is not written in HDB
FAULT	Properties defining signals to be controlled are not coherent.

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
AddSignal	DEVVAR_LONGSTRINGARRAY	DEV_VOID
RemoveSignal	DEV_STRING	DEV_VOID
GetSignalList	DEV_VOID	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:**
 - Tango::ON
 - Tango::ALARM
 - Tango::FAULT

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::ON

- Tango::ALARM
- Tango::FAULT

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::ON
 - Tango::ALARM
 - Tango::FAULT

4 - AddSignal

- **Description:** Add a signal to be controled.
- **Argin:**
DEVVAR_LONGSTRINGARRAY : svalue[0] - signal name
lvalue[0] - time in seconds to set alarm if signal not written in HDB
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::ALARM
 - Tango::FAULT

5 - RemoveSignal

- **Description:** remove a signal to be controled.
- **Argin:**
DEV_STRING : signal name
- **Argout:**
DEV_VOID :
- **Command allowed for:**

- Tango::ON
- Tango::ALARM
- Tango::FAULT

6 - GetSignalList

- **Description:** Returns the signal list as: signal name [signal delay]

- **Argin:**
DEV_VOID :

- **Argout:**
DEVVAR_STRINGARRAY :

- **Command allowed for:**
 - Tango::ON
 - Tango::ALARM
 - Tango::FAULT

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