



TANGO
Device
Server

Tango Device Server User's Guide

JHdbEventManager Class

Revision: Release-JHdbEventManager_1_3 - Author: verdier
Implemented in Java

Introduction:

This class is able to manage several HdbEventHandler device servers.
It assigns signals to a HdbEventHandler device (depends on domain, family, load,...).

Class Identification:

- **Contact** : at esrf.fr - verdier
- **Class Family** : TACO_Interfaces (ESRF Specific)
- **Platform** : All Platforms
- **Bus** : Not Applicable

Class Inheritance:

- fr.esrf.TangoDs.Device_2Impl
 - JHdbEventManager

Properties:

Device Properties		
Property name	Property type	Description
HdbConfigDevice	string	Hdb config device name to create a signal.

Device Properties Default Values:

Property Name	Default Values
HdbConfigDevice	No default value

There is no Class properties.

Attributes:

Spectrum Attributes			
Attribute name	Data Type	X Data Length	Expert
DeviceNames: HdbEventHandler device names.	DEV_STRING	50	No
DeviceStates: HdbEventHandler device states as short values.	DEV_SHORT	50	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
AddDoubleSignal	DEV_STRING	DEV_STRING
AddDoubleSpectrumSignal	DEVVAR_LONGSTRINGARRAY	DEV_STRING
AddStringSignal	DEV_STRING	DEV_STRING
DeviceSignalList	DEV_STRING	DEVVAR_STRINGARRAY
DeviceSignalOnErrorList	DEV_STRING	DEVVAR_STRINGARRAY
ReadProperties	DEV_STRING	DEV_VOID
RemoveSignal	DEV_STRING	DEV_VOID
RegisterService	DEV_VOID	DEV_VOID
UnregisterService	DEV_VOID	DEV_VOID
IsSignalExisting	DEV_STRING	DEV_BOOLEAN

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 - AddDoubleSignal

- **Description:** Add the specified signal as double to the list of a HdbEventHandler signals.
- **Argin:**
DEV_STRING : Signal name.
- **Argout:**
DEV_STRING : Event Handler device choosen.
- **Command allowed for:**

5 - AddDoubleSpectrumSignal

- **Description:** Add the specified signal as double spectrum to the list of a HdbEventHandler signals.
- **Argin:**
DEVVAR_LONGSTRINGARRAY : svalue[0] - Signal name. lvalue[0] - spectrum depth
- **Argout:**
DEV_STRING : Event Handler device choosen.
- **Command allowed for:**

6 - AddStringSignal

- **Description:** Add the specified signal as string to the list of a HdbEventHandler signals.
- **Argin:**
DEV_STRING : Signal name.
- **Argout:**
DEV_STRING : Event Handler device choosen.
- **Command allowed for:**

7 - DeviceSignalList

- **Description:** Returns the signal list for specified device.
- **Argin:**
DEV_STRING : Device name.
- **Argout:**
DEVVAR_STRINGARRAY : Signal list for specified device.
- **Command allowed for:**

8 - DeviceSignalOnErrorList

- **Description:** Returns the signal on error list for specified device.
- **Argin:**
DEV_STRING : Device name.
- **Argout:**
DEVVAR_STRINGARRAY : Signal on error list for specified device.
- **Command allowed for:**

9 - ReadProperties

- **Description:** Re-initialize the specified event handler device from it's properties
- **Argin:**
DEV_STRING : Event handler device name
- **Argout:**
DEV_VOID :

- **Command allowed for:**

10 - RemoveSignal

- **Description:** Remove the specified signal to the list of a HdbEventHandler signals.
- **Argin:**
DEV_STRING : Signal name.
- **Argout:**
DEV_VOID :
- **Command allowed for:**

11 - RegisterService

- **Description:** Register device as a TANGO service.
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

12 - UnegisterService

- **Description:** Unregister device as a TANGO service.
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

13 - IsSignalExisting

- **Description:** Return true if specified signal is defined in HDB.
- **Argin:**
DEV_STRING : specified signal name

- **Argout:**
DEV_BOOLEAN : true if specified signal exists
- **Command allowed for:**

<p>TANGO is an open source project hosted by :</p> 	<p>Core and Tools : CVS repository on tango-cs project Device Servers : CVS repository on tango-ds project</p>
--	--