



TANGO
Device
Server

Tango Device Server User's Guide

HdbConfigServer Class

Revision: start - Author: poncet
Implemented in Java

Introduction:

This server allows creation of signals with external filling mode (mode7) in taco HDB. The server can be used by other device servers to create the signals in HDB without any need to do it manually.

Class Inheritance:

- fr.esrf.TangoDs.Device_2Impl
 - HdbConfigServer

Class Description:

This server allows creation of signals in HDB.

Properties:

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

States:

States	
Names	Descriptions
FAULT	The server failed to log into HDB with the mode7 user and password
ON	The server is logged in (authenticated) by a mode7 user name and password.

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
IsSignalExisting	DEV_STRING	DEV_BOOLEAN
CreateSignalMode7	DEVVAR_STRINGARRAY	DEV_VOID
AddExternalSignal	DEVVAR_STRINGARRAY	DEV_VOID
CreateArraySignalMode7	DEVVAR_STRINGARRAY	DEV_VOID

Device Commands for Expert Level Only		
Command name	Argument In	Argument Out
DeleteExternalSignal	DEV_STRING	DEV_VOID

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::FAULT
 - Tango::ON

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::FAULT
 - Tango::ON

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::FAULT
- Tango::ON

4 - IsSignalExisting

- **Description:** This command returns true if the given signal exists already in HDB, false otherwise.

- **Argin:**

DEV_STRING : The signal name for example : sr/d-radmap/adc-1/value.

- **Argout:**

DEV_BOOLEAN :

- **Command allowed for:**

- Tango::FAULT
- Tango::ON

5 - CreateSignalMode7

- **Description:** This command is equivalent to CreateSignalMode7 command. Creates one signal in external filling mode (mode7). If the signal already exists in external filling mode this command returns. If the signal exists but not in external filling mode (mode 7) this mode will be added to the existing signal. If the signal does not exist at all, it will be created as a new signal in external filling mode (mode7).

- **Argin:**

DEVVAR_STRINGARRAY : {"Signal name", "Data type" }

- **Argout:**

DEV_VOID :

- **Command allowed for:**

- Tango::FAULT
- Tango::ON

6 - AddExternalSignal

- **Description:** Deletes entirely the signal from HDB : the signal name and definition and also all signal data since it's creation will be deleted from the database. If the signal has not the external mode filling defined (mode7) the command will fail.

- **Argin:**

DEVVAR_STRINGARRAY : Either {"Signal name", "Data type" } or {"Signal name", "Data type", "array length" }

- **Argout:**
DEV_VOID :

- **Command allowed for:**

○ Tango::ON

7 - DeleteExternalSignal (for expert only)

- **Description:** Deletes entirely the signal from HDB : the signal name and definition and also all signal data since it's creation will be deleted from the database. If the signal has not the external mode filling defined (mode7) the command will fail.

- **Argin:**

DEV_STRING : The signal name for example : sr/d-radmap/adc-1/value.

- **Argout:**

DEV_VOID :

- **Command allowed for:**

○ Tango::ON

8 - CreateArraySignalMode7

- **Description:**

- **Argin:**

DEVVAR_STRINGARRAY : {"Signal name", "Data type", "array length" }

- **Argout:**

DEV_VOID :

- **Command allowed for:**

○ Tango::FAULT

○ Tango::ON

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