



TANGO
Device
Server

Abstract class for a sequencer User's Guide

Sequencer Class

Revision: keyword substitution - Author: andy_gotz
Implemented in C++ - CVS repository: tango-ds

Introduction:

Class Inheritance:

- Tango::Device_4Impl
 - Sequencer

Properties:

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

States:

States	
Names	Descriptions
ON	sequencer idle, ready to execute commands
INIT	sequencer busy initiliasing
RUNNING	sequencer busy executing a command
FAULT	sequencer in fault state

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
Execute	DEV_STRING	DEV_STRING
ExecuteAsync	DEV_STRING	DEV_VOID
CreateData	DEVVAR_STRINGARRAY	DEV_VOID
DeleteData	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::ON
- Tango::INIT
- Tango::RUNNING
- 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::INIT
- Tango::RUNNING
- 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::INIT
- Tango::RUNNING
- Tango::FAULT

4 - Execute

- **Description:**
- **Argin:**
DEV_STRING : command to execute
- **Argout:**
DEV_STRING : command output
- **Command allowed for:**
 - Tango::ON

5 - ExecuteAsync

- **Description:**
- **Argin:**
DEV_STRING : start executing a command asynchronously
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON

6 - CreateData

- **Description:**
- **Argin:**
DEVVAR_STRINGARRAY : create a new data specify name and type
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::ON
 - Tango::INIT
 - Tango::RUNNING
 - Tango::FAULT

7 - DeleteData

- **Description:**
- **Argin:**
DEV_STRING : name of attribute to delete
- **Argout:**
DEV_VOID :
- **Command allowed for:**
 - Tango::INIT

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