



**TANGO**  
Device  
Server

# HLS rack device server User's Guide

## HlsCrate Class

Revision: - Author: peru  
Implemented in C++ - CVS repository: ESRF

### Introduction:

This device server is intended to drive a Michat digital hydrostatic levelling system crate.

### Class Inheritance:

- Tango::Device\_4Impl
  - HlsCrate

### Properties:

<b>Device Properties</b>		
<b>Property name</b>	<b>Property type</b>	<b>Description</b>
<b>PortNumber</b>	Tango::DEV_SHORT	The TCP port number used for the connection.
<b>IpAddress</b>	Tango::DEV_STRING	IP address of the HLS crate

Device Properties Default Values:

<b>Property Name</b>	<b>Default Values</b>
PortNumber	10
IpAddress	No default value

**There is no Class properties.**

**States:**

<b>States</b>	
<b>Names</b>	<b>Descriptions</b>
<b>ON</b>	Normal state
<b>ALARM</b>	This state is reached when something is wrong with the hardware
<b>FAULT</b>	This state is reached when there is a communication problem with the equipment.

**Attributes:**

<b>Spectrum Attributes</b>			
<b>Attribute name</b>	<b>Data Type</b>	<b>X Data Length</b>	<b>Expert</b>
<b>HlsChannels</b>	DEV_USHORT	100	No
<b>HlsGlobalStatus</b>	DEV_FLOAT	20	No

# Commands:

More Details on commands....

Device Commands for Operator Level		
Command name	Argument In	Argument Out
<b>Init</b>	DEV_VOID	DEV_VOID
<b>State</b>	DEV_VOID	DEV_STATE
<b>Status</b>	DEV_VOID	CONST_DEV_STRING
<b>ToggleDebugMode</b>	DEV_VOID	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::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 - ToggleDebugMode

- **Description:**
- **Argin:**  
**DEV\_VOID** :
- **Argout:**  
**DEV\_VOID** :
- **Command allowed for:**
  - Tango::ON
  - Tango::ALARM
  - Tango::FAULT

TANGO is an open source project hosted by :  


Core and Tools : CVS repository on tango-cs project  
 Device Servers : CVS repository on tango-ds project