



**TANGO**  
Device  
Server

# Fluids Data Reading User's Guide

## FluidsData Class

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Implemented in C++ - CVS repository: ESRF

### Introduction:

Read data from the infrastructure system and present it as attributes

### Class Inheritance:

- Tango::Device\_4Impl
  - FluidsData

### Class Description:

Read data from the infrastructure system and present it as attributes

## Properties:

<b>Device Properties</b>		
<b>Property name</b>	<b>Property type</b>	<b>Description</b>
<b>Data_tag</b>	Tango::DEV_STRING	Tag to read the data values from.
<b>Attribute_list</b>	Array of string	A list of attribute names and the corresponding position of the represented value in the "data_tag". The format is : /sys/f-circuit/sre/temp: 0 /sys/f-circuit/sre/press: 1 The attribute /sys/f-circuit/sre/temp represents the first element of the array "data_tag".

## Device Properties Default Values:

<b>Property Name</b>	<b>Default Values</b>
Data_tag	No default value
Attribute_list	No default value

**There is no Class properties.**

## States:

<b>States</b>	
<b>Names</b>	<b>Descriptions</b>
<b>ON</b>	The OPC access is OK and the data is valid.
<b>FAULT</b>	The OPC access is OK, but the data is invalid.
<b>ALARM</b>	The OPC access is OK, but the data is of uncertain quality.
<b>UNKNOWN</b>	The OPC access returned an exception, no data was read.

## 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

## 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::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

## 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::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

### 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::FAULT
  - Tango::ALARM
  - Tango::UNKNOWN

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