



**TANGO**  
Device  
Server

---

# **Icv101 Device Server User's Guide**

## **Icv101 Class**

---

**Revision: start - Author: kimdon**  
**Implemented in C++ - CVS repository: ESRF**

### **Introduction:**

This device server controls the ADAS Icv101 ADC board.

### **Properties:**

## Device Properties

Property name	Property type	Description
<b>File_path</b>	Array of string	
<b>A0</b>	Array of float	
<b>A1</b>	Array of float	
<b>A2</b>	Array of float	
<b>Formats</b>	Array of string	
<b>Headers</b>	Array of string	
<b>F1</b>	Tango::DEV_LONG	
<b>F2</b>	Tango::DEV_LONG	
<b>Npost_time</b>	Tango::DEV_DOUBLE	Number of microseconds to record data after the trigger.
<b>Npf2_time</b>	Tango::DEV_DOUBLE	Number of microseconds to take data at frequency f2 (post trigger).
<b>Npre_time</b>	Tango::DEV_DOUBLE	Number of microseconds of data to report before the trigger.
<b>Channels</b>	Array of long	List of channels that should be aquired.
<b>Log_name</b>	Tango::DEV_STRING	Prefix to log file name.

### Device Properties Default Values:

Property Name	Default Values
File_path	No default value
A0	No default value
A1	No default value
A2	No default value
Formats	No default value
Headers	No default value
F1	No default value
F2	No default value
Npost_time	No default value
Npf2_time	No default value
Npre_time	No default value
Channels	No default value
Log_name	No default value

There is no Class properties.

## States:

<b>States</b>	
<b>Names</b>	<b>Descriptions</b>
<b>RUNNING</b>	
<b>STANDBY</b>	
<b>FAULT</b>	

## Attributes:

<b>Scalar Attributes</b>			
<b>Attribute name</b>	<b>Data Type</b>	<b>R/W Type</b>	<b>Expert</b>
<b>error_string</b>	DEV_STRING	READ	No

## Commands:

More Details on commands....

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

## 1 - Init

- **Description:** This command re-initialises 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::RUNNING
  - Tango::STANDBY
  - 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::RUNNING
  - Tango::STANDBY
  - 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::RUNNING
  - Tango::STANDBY
  - Tango::FAULT

## 4 - Poll

- **Description:**
- **Argin:**  
**DEV\_VOID** :
- **Argout:**  
**DEV\_VOID** :
- **Command allowed for:**
  - Tango::RUNNING
  - Tango::STANDBY
  - Tango::FAULT
- **Polled every 2000 ms**

TANGO is an open source project hosted by :  
**SOURCEFORGE.NET**®

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