



TANGO
Device
Server

SIS3820

User's Guide

SIS3820 Class

Revision: - Author: tere29
Implemented in C++

Introduction:

SIS3820 counter, MCS

Class Inheritance:

- Tango::DeviceImpl
 - Counter
 - SIS3820

Properties:

Device Properties		
Property name	Property type	Description
Base	Tango::DEV_ULONG	VME base address. Default: 0x38000000 (939524096)
Channel	Tango::DEV_ULONG	channel number
SimulationMode	Tango::DEV_ULONG	0 real mode, 1 simulation mode

Device Properties Default Values:

Property Name	Default Values
Base	939524096
Channel	No default value
SimulationMode	No default value

There is no Class properties.

States:

States	
Names	Descriptions
ON	Counter is ready

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Counts	DEV_LONG	READ_WRITE	No
Offset	DEV_LONG	READ_WRITE	No

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
Reset	DEV_VOID	DEV_LONG
Read	DEV_VOID	DEV_LONG

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

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

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

4 - Reset

- **Description:** resets a channel, clears counter contents

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_LONG : return status

- **Command allowed for:**

- Tango::ON

5 - Read

- **Description:** Return counter contents

- **Argin:**

DEV_VOID :

- **Argout:**

DEV_LONG : Counter contents

- **Command allowed for:**

- Tango::ON

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