

DGG2 Tango Cpp Class

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DGG2 Class Identification :

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Class Family : Instrumentation
Platform : Unix Like
Bus : VME
Manufacturer : none
Manufacturer ref. :

DGG2 Class Inheritance :

- [Tango::DeviceImpl](#)
 - DGG2

DGG2 Class Description :

dual gate generator, version 2, DESY

DGG2 Properties :

There is no class properties

| Device Properties | | | |
|-------------------|---|------|---------------|
| Name | Description | Type | Default Value |
| Base | vme base address | int | none |
| Channel | channel no. | int | none |
| SimulationMode | 0 real mode, 1 simulation mode. | int | none |
| VmeCard | Selects the VME card, can be 0 or 1, default is 0 | int | 0 |

| DGG2 Class Commands | | | | |
|--------------------------------------|------------|------------------|----------|--|
| Name | Input type | Output type | Level | Description |
| State | DEV_VOID | DEV_STATE | OPERATOR | This command gets the device state (stored in its <i>device_state</i> data member) and returns it to the caller. |
| Status | DEV_VOID | CONST_DEV_STRING | OPERATOR | This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller. |
| Start | DEV_VOID | DEV_LONG | OPERATOR | start the timer, sample time is an attribute |
| Stop | DEV_VOID | DEV_LONG | OPERATOR | stops the timer |
| Check | DEV_VOID | DEV_LONG | OPERATOR | returns 1, if the timer is busy |
| StartAndWaitForTimer | DEV_VOID | DEV_LONG | OPERATOR | starts and waits for the timer, sample time is an attribute |
| WaitForTimer | DEV_VOID | DEV_LONG | OPERATOR | waits for the timer |
| Read | DEV_VOID | DEV_LONG | OPERATOR | returns the remaining time in musecs |
| StartPreset | DEV_VOID | DEV_LONG | OPERATOR | start the timer in preset mode, sample time is an attribute |

Command State :

This command gets the device state (stored in its *device_state* data member) and returns it to the caller.

| State Definition | | |
|---------------------|------------------|------------|
| Input Argument | Tango::DEV_VOID | none. |
| Output Argument | Tango::DEV_STATE | State Code |
| DisplayLevel | OPERATOR | .. |
| Inherited | true | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command Status :

This command gets the device status (stored in its *device_status* data member) and returns it to the caller.

| Status Definition | | |
|---------------------|-------------------------|--------------------|
| Input Argument | Tango::DEV_VOID | none. |
| Output Argument | Tango::CONST_DEV_STRING | Status description |
| DisplayLevel | OPERATOR | .. |
| Inherited | true | .. |
| Abstract | true | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command Start :

start the timer, sample time is an attribute

| Start Definition | | |
|------------------|-----------------|---------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | return status |
| DisplayLevel | OPERATOR | .. |

| | | |
|---------------------|------------|----|
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command Stop :

stops the timer

| Stop Definition | | |
|---------------------|-----------------|---------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | return status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command Check :

returns 1, if the timer is busy

| Check Definition | | |
|---------------------|-----------------|---------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | return status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command StartAndWaitForTimer :

starts and waits for the timer, sample time is an attribute

| StartAndWaitForTimer Definition | | |
|---------------------------------|-----------------|---------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | return status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command WaitForTimer :

waits for the timer

| WaitForTimer Definition | | |
|-------------------------|-----------------|---------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | return status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command Read :

returns the remaining time in musecs

| Read Definition | | |
|---------------------|-----------------|--------------------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | Remaining time in musecs |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

Command StartPreset :

start the timer in preset mode, sample time is an attribute

| StartPreset Definition | | |
|------------------------|-----------------|---------------|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_LONG | return status |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |
| Polling Period | Not polled | .. |
| | | |
| Command allowed for | All states | .. |

| DGG2 Class Attributes | | | | | | | |
|----------------------------|-----------|----------|------------|------------|-------------------|----------|-------------|
| Name | Inherited | Abstract | Attr. type | R/W type | Data type | Level | Description |
| SampleTime | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | OPERATOR | SampleTime |

| | | | | | | | |
|-------------------------------|-------|-------|--------|------|-------------------|----------|---|
| RemainingTime | false | false | Scalar | READ | Tango::DEV_DOUBLE | OPERATOR | in seconds Remaining time in seconds |
|-------------------------------|-------|-------|--------|------|-------------------|----------|---|

There is no dynamic attribute defined.

Attribute SampleTime :

SampleTime in seconds

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| Attribute Properties | |
|----------------------|-----------|
| label | |
| unit | s |
| standard unit | |
| display unit | |
| format | |
| max_value | 4294.9673 |
| min_value | 0 |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| Attribute Event Criteria | |
|-----------------------------------|---------|
| Periodic | Not set |
| Relative Change | Not set |
| Absolute Change | Not set |
| | |
| Archive Periodic | Not set |
| Archive Relative Change | Not set |
| Archive Absolute Change | Not set |
| | |
| Push Change event by user code | false |
| | |
| Push Archive event by user code | false |
| | |
| Push DataReady event by user code | Not set |

Attribute RemainingTime :

Remaining time in seconds

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ |
| Data Type | Tango::DEV_DOUBLE |
| Display Level | OPERATOR |
| Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | Not set |
| | |
| Read allowed for | All states |

| Attribute Properties | |
|----------------------|---|
| label | |
| unit | s |
| standard unit | |
| display unit | |
| format | |
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| Attribute Event Criteria | |
|-----------------------------------|---------|
| Periodic | Not set |
| Relative Change | Not set |
| Absolute Change | Not set |
| | |
| Archive Periodic | Not set |
| Archive Relative Change | Not set |
| Archive Absolute Change | Not set |
| | |
| Push Change event by user code | false |
| | |
| Push Archive event by user code | false |
| | |
| Push DataReady event by user code | Not set |

| DGG2 Class States | |
|-------------------|----------------|
| Name | Description |
| ON | Timer is ready |
| MOVING | |