

SingleShotAO Tango Cpp Class

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SingleShotAO Class Identification :

Contact : at synchrotron-soleil.fr - bureau
Class Family : InputOutput
Platform : All Platforms
Bus : Compact PCI
Manufacturer : none
Manufacturer ref. :

SingleShotAO Class Inheritance :

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

SingleShotAO Class Description :

ADLink boards support for single shot AO operations [PCI-6208 and compatible boards]

SingleShotAO Properties :

There is no class properties

| Device Properties | | | |
|-------------------|---|--------|---------------|
| Name | Description | Type | Default Value |
| BoardNum | The the board identifier in the cPCI crate [valid range is 0..7 - no default value] . | short | none |
| BoardType | The board type [MAO_XXXX - where is the ADlink board identifier - e.g. MAO_6208 - no default value] | String | none |

| SingleShotAO 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. |
| Abort | DEV_VOID | DEV_VOID | OPERATOR | Aborts ramps in progress. |

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

Command Abort :

Aborts ramps in progress.

| Abort Definition | | |
|-------------------------|-----------------|----|
| Input Argument | Tango::DEV_VOID | |
| Output Argument | Tango::DEV_VOID | |
| DisplayLevel | OPERATOR | .. |
| Inherited | false | .. |
| Abstract | false | .. |

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

| SingleShotAO Class Attributes | | | | | | | |
|-------------------------------|-----------|----------|------------|------------|-------------------|--------|---|
| Name | Inherited | Abstract | Attr. type | R/W type | Data type | Level | Description |
| frequency | false | false | Scalar | READ_WRITE | Tango::DEV_DOUBLE | EXPERT | Sampling frequency for ramp generation on the board output channels, in Hz. |

There is no dynamic attribute defined.

Attribute frequency :

Sampling frequency for ramp generation on the board output channels, in Hz.

| Attribute Definition | |
|----------------------|-------------------|
| Attribute Type | Scalar |
| R/W Type | READ_WRITE |
| Data Type | Tango::DEV_DOUBLE |
| Display | EXPERT |

| Attribute Properties | |
|----------------------|-----------|
| label | frequency |
| unit | Hz |
| standard unit | Hz |
| display unit | Hz |
| format | |

| Attribute Event Criteria | |
|--------------------------|---------|
| Periodic | Not set |
| Relative Change | Not set |
| Absolute Change | Not set |

| | |
|-------------------------|------------|
| Level Inherited | false |
| Abstract | false |
| Polling Period | Not polled |
| Memorized | true |
| Write hardware at init. | Not set |
| | |
| Read allowed for | All states |
| Write allowed for | All states |

| | |
|-------------|--|
| max_value | |
| min_value | |
| max_alarm | |
| min_alarm | |
| max_warning | |
| min_warning | |
| delta_time | |
| delta_val | |

| | |
|-----------------------------------|---------|
| | |
| 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 |

| SingleShotAO Class States | |
|---------------------------|---|
| Name | Description |
| FAULT | Hardware / driver failure or fatal error occurred |
| ON | Device ready to execute AO request |
| INIT | Device initialization in progress |
| MOVING | Ramp generation in progress |