Nano23ctrl Tango Cpp Class

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Nano23ctrl Class Identification :

Contact	: at desy.de - johannes.blume
Class Family	: Motion
Platform	: Unix Like
Bus	: Not Applicable
Manufacturer	: none
Manufacturer ref.	:

Nano23ctrl Class Inheritance :

- Tango::DeviceImpl
  - Nano23ctrl

Nano23ctrl Class Description :

Nano23ctrl Properties :

There is no class properties

Device Properties			
Name	**Description**	**Type**	**Default Value**
StageType	The type of stage we are moving, currently only type 4 is supported.	int	4
SimulationMode		int	1
NetTimeOut	The read timeout on the network in seconds. The controller will only answer to commands after the command was executed. If you experience network read timeout errors on long motions, you might want to fiddle with this.	int	60
HostName	Hostname or IP address	String	""
PortNumber	Port Number on terminal server	String	""
ConnectType		String	either `serial` ot `net`
DeviceFile	tty device file name	String	""
BaudRate	tty baud rate	int	0

Nano23ctrl Class Commands				
Name	**Input type**	**Output type**	**Level**	**Description**
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
Status	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its *device_status* data member) and returns it to the caller.
CurrentUnitPosition	DEV_STRING	DEV_LONG	OPERATOR	Returns the current position of axis given in argin (A-D). Will generate exception if axis does not exist on stage or on error.
MoveAbsoluteUnits	DEV_VOID	DEV_LONG	OPERATOR	Move all axes.
MoveAbsoluteUnitsSingle	DEV_VOID	DEV_LONG	OPERATOR	Move axis set in ActiveAxis to position set in TargetPosition.
Home	DEV_VOID	DEV_LONG	OPERATOR	Run homing sequence on all axes.
Stop	DEV_VOID	DEV_LONG	OPERATOR	Stop all movements.
GetCwLimit	DEV_STRING	DEV_BOOLEAN	OPERATOR	Get cw limit state (true = hit) for axis set in ActiveAxis.
GetCcwLimit	DEV_STRING	DEV_BOOLEAN	OPERATOR	Get cw limit state (true = hit) for axis set in ActiveAxis.
MaxTravel	DEV_STRING	DEV_LONG	OPERATOR	None.
MoveFineSingle	DEV_VOID	DEV_LONG	OPERATOR	Move axis set in ActiveAxis by fine steps given in TargetFine.
MoveCoarseSingle	DEV_VOID	DEV_LONG	OPERATOR	Move axis set in ActiveAxis by coarse steps given in TargetCoarse.
CurrentCoarseSteps	DEV_STRING	DEV_LONG	OPERATOR	Return current value of coarse set register for axis given in argin.
CurrentFineSteps	DEV_STRING	DEV_LONG	OPERATOR	Return current value of fine set register for axis given in argin.
Reset	DEV_VOID	DEV_VOID	OPERATOR	Resets control device (to get out of fault state).
LoadProfile	DEV_LONG	DEV_VOID	OPERATOR	Loads profile given in argin (1-6) into controller
				Sets the currently loaded profile as default (= poweron)

DefaultProfile	DEV_VOID	DEV_VOID	OPERATOR	profile
StoreProfile	DEV_LONG	DEV_VOID	OPERATOR	Stores the current settings as profile given in argin (1-6)
CurrentProfile	DEV_VOID	DEV_LONG	OPERATOR	returns the number of the currently loaded profile

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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	true	..
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 CurrentUnitPosition :

Returns the current position of axis given in argin (A-D). Will generate exception if axis does not exist on stage or on error.

CurrentUnitPosition Definition		
Input Argument	Tango::DEV_STRING	axis name

Output Argument	Tango::DEV_LONG	current unit position
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	• FAULT • MOVING	..

Command MoveAbsoluteUnits :

Move all axes.

MoveAbsoluteUnits Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_LONG	success, 0 = error, 1 = failure
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command MoveAbsoluteUnitsSingle :

Move axis set in ActiveAxis to position set in TargetPosition.

MoveAbsoluteUnitsSingle Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_LONG	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Home :

Run homing sequence on all axes.

Home Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_LONG	success, 0 = error, 1 = ok
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Stop :

Stop all movements.

Stop Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_LONG	success, 0 = error, 1 = ok
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command GetCwLimit :

Get cw limit state (true = hit) for axis set in ActiveAxis.

GetCwLimit Definition		
Input Argument	Tango::DEV_STRING	
Output Argument	Tango::DEV_BOOLEAN	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command GetCcwLimit :

Get cw limit state (true = hit) for axis set in ActiveAxis.

GetCcwLimit Definition		
Input Argument	Tango::DEV_STRING	
Output Argument	Tango::DEV_BOOLEAN	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command MaxTravel :

MaxTravel Definition		
Input Argument	Tango::DEV_STRING	
Output Argument	Tango::DEV_LONG	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command MoveFineSingle :

Move axis set in ActiveAxis by fine steps given in TargetFine.

MoveFineSingle Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_LONG	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command MoveCoarseSingle :

Move axis set in ActiveAxis by coarse steps given in TargetCoarse.

MoveCoarseSingle Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_LONG	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command CurrentCoarseSteps :

Return current value of coarse set register for axis given in argin.

CurrentCoarseSteps Definition		
Input Argument	Tango::DEV_STRING	axis name
Output Argument	Tango::DEV_LONG	current coarse set register value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command CurrentFineSteps :

Return current value of fine set register for axis given in argin.

CurrentFineSteps Definition		
Input Argument	Tango::DEV_STRING	axis name
Output Argument	Tango::DEV_LONG	current unit position
DisplayLevel	OPERATOR	..
Inherited	false	..

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

Command Reset :

Resets control device (to get out of fault state).

Reset 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	..

Command LoadProfile :

Loads profile given in argin (1-6) into controller

LoadProfile Definition		
Input Argument	Tango::DEV_LONG	profile to load
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command DefaultProfile :

Sets the currently loaded profile as default (= poweron) profile

DefaultProfile 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	..

Command StoreProfile :

Stores the current settings as profile given in argin (1-6)

StoreProfile Definition		
Input Argument	Tango::DEV_LONG	profile number
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command CurrentProfile :

returns the number of the currently loaded profile

CurrentProfile Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_LONG	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Nano23ctrl Class Attributes							
			Attr.				

Name	Inherited	Abstract	type	R/W type	Data type	Level	Description
ActiveAxis	false	false	Scalar	READ_WRITE	Tango::DEV_STRING	OPERATOR	Stores the axis letter of the axis the single axis operations\nwill act on.
TargetPosition	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	The absolute target position (in steps) the active axis will be moved \nto when calling MoveAbsoluteUnitsSingle.
BackLash	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	The backlash value for all axes.
TargetCoarse	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	When written: The relative movement (in coarse steps) the active axis will be moved \nby when calling MoveCoarseSingle.\nWhen read: the current value of the coarse step register of ActiveAxis.
TargetFine	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	When written: The relative movement (in fine steps) the active axis will be moved \nby when calling MoveCoarseSingle.\nWhen read: the current value of the fine step register of ActiveAxis.
FineWithCoarse	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	The setting for fine movements of ActiveAxis.
StepSize	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	
FlagMotorReady	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	Returns 1 if motor has been set up for multi-axis movement with\nMoveAbsoluteUnits.
StepsForSpeed	false	false	Scalar	READ_WRITE	Tango::DEV_STRING	OPERATOR	The speed setting for the current speed of ActiveAxis.\nSpeed setting can be (slow to fast) f01, f08, f32, c01, c08, c64.
Speed	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	The current speed setting for ActiveAxis.
CounterMode	false	false	Scalar	READ_WRITE	Tango::DEV_STRING	OPERATOR	Sets the countermode, valid values are:\nOFF\nXEYE\nXEYEZE\nX2EY2E
DeviceMode	false	false	Scalar	READ_WRITE	Tango::DEV_STRING	OPERATOR	Sets the devicemode, valid values are:\nNM\nMM3A\nLT
SettleTime	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	

There is no dynamic attribute defined.

Attribute ActiveAxis :

Stores the axis letter of the axis the single axis operations\nwill act on.

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	false
Abstract	false

Attribute Properties	
label	ActiveAxis
unit	
standard unit	
display unit	
format	
max_value	

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

~~Polling Period~~	~~Not polled~~
Memorized	Not set
Read allowed for	All states
Write allowed for	All states

min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

Push Change event by user code	false
Push Archive event by user code	false
Push DataReady event by user code	Not set

Attribute TargetPosition :

The absolute target position (in steps) the active axis will be moved \nto when calling MoveAbsoluteUnitsSingle.

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
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	TargetPosition
unit	
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

Attribute BackLash :

The backlash value for all axes.

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
Display Level	OPERATOR

Attribute Properties	
label	BackLash
unit	um
standard unit	um
display unit	um

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

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

format	%5d
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

Attribute TargetCoarse :

When written: The relative movement (in coarse steps) the active axis will be moved \nby when calling MoveCoarseSingle.\nWhen read: the current value of the coarse step register of ActiveAxis.

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
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	TargetCoarse
unit	
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

Attribute TargetFine :

When written: The relative movement (in fine steps) the active axis will be moved \nby when calling MoveCoarseSingle.\nWhen read: the current value of the fine step register of ActiveAxis.

Attribute Definition	

Attribute Properties	
label	TargetFine

Attribute Event Criteria	
Periodic	Not set

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

unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

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 FineWithCoarse :

The setting for fine movements of ActiveAxis.

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
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	FineWithCoarse
unit	
standard unit	
display unit	
format	%1d
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

Attribute StepSize :

Attribute Definition	

Attribute Properties	

Attribute Event Criteria	

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

label	
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

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 FlagMotorReady :

Returns 1 if motor has been set up for multi-axis movement with\nMoveAbsoluteUnits.

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

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	%1d
max_value	1
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 StepsForSpeed :

The speed setting for the current speed of ActiveAxis.\nSpeed setting can be (slow to fast) f01, f08, f32, c01, c08, c64.

Attribute Definition	
Attribute Type	Scalar

Attribute Properties	
label	StepsForSpeed

Attribute Event Criteria	
Periodic	Not set

R/W Type	READ_WRITE
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states
Write allowed for	All states

unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

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 Speed :

The current speed setting for ActiveAxis.

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_LONG
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	
standard unit	
display unit	
format	%1d
max_value	6
min_value	1
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 CounterMode :

Sets the countermode, valid values are:\nOFF\nXEYE\nXEYEZE\nX2EY2E

Attribute	

Attribute	

Attribute Event Criteria	

Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Properties	
label	CounterMode
unit	
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	
delta_val	

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 DeviceMode :

Sets the devicemode, valid values are:\nNM\nMM3A\nLT

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ_WRITE
Data Type	Tango::DEV_STRING
Display Level	OPERATOR
Inherited	false
Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	DeviceMode
unit	
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

Attribute SettleTime :

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
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

Nano23ctrl Class States	
Name	**Description**
ON	
FAULT	
MOVING	