

OmsVme58 Tango Cpp Class

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OmsVme58 Class Identification :

Contact : at desy.de - maria-teresa.nunez-pardo-de-vera
 Class Family : Motion
 Platform : Unix Like
 Bus : VME
 Manufacturer : none
 Manufacturer ref. :

OmsVme58 Class Inheritance :

- [Tango::DeviceImpl](#)
 - OmsVme58

OmsVme58 Class Description :

Stepping motor

OmsVme58 Properties :

There is no class properties

Device Properties

Name	Description	Type	Default Value
Base	vme base address	int	61440
Channel	channel number	int	0
AccuMax	the maximum step register value	int	33500000
AccuMin	minimum step register value	int	-33500000
SlewRateMinHw	the minumal slew rate, hardware	int	0

SlewRateMaxHw	the maximum slew rate, hardware	int	1044000
AccelerationMinHw	minimum acceleration, hardware	int	0
AccelerationMaxHw	the maximum acceleration	int	1000000000
Type	Motor type. 0 -> StepperMotor 1 -> Servo	short	0
SimulationMode	0 real mode, 1 simulation mode	int	none
MaxVSerie	0 not MaxV 1 MaxV	short	none
IgnoreLimitSw	set to 1: the server will ignore any limit switch signals, so you can move a motor with no switches connected set to 0: the server will honour limit switch signals	int	1
FlagEncoder	1 if an encoder Rnishaw rgh24 is connected 2 if an SSI encoder is connected	int	0
FlagUseCollisionsSensor	Set to 1 for using CollisionsSensor Server for checking possible collisions.	int	0
CollisionsSensorDS	Name of the CollisionsSensor Device Server to be connected to.	String	none
CollisionsSensorBL	Beamline identification as string, needs for sending to CollisionsSensor.	String	none
ZMXDevice	Name of the zmx device corresponding to the ZMX hardware connected to this motor.	String	none
FlagSendDataToCollisionsSensor	If one limits are send to the collision sensor before checking the movement. It is necessary if any attribute of this server has to be used in the check routine.	int	0
FlagCutOrMap	0 - ignore, 1 - cut, 2 - map Cutting point: cannot be passed through, the position stays in [cut, cut+360[Mapping point: the position is kept in [map, map+360[, automatic re-calibrations	int	0
AbsoluteEncoderOffset	SSI absolute encoder difference (in counts) between absolute encoder zero and your desired zero position	int	0
AbsoluteEncoderResolution	SSI encoder resolution in bits	short	18
AbsoluteEncoderFrequency	SSI encoder data rate in Hz. Valid rates are 31250, 62500, 125000, 250000, 500000, 1000000, 2000000 and 4000000	int	250000
HomeDefinition	EHhiba h home i index b phase a phase	String	EH1111
HomeIndexDefinition	1 - enables encoder index, phase A and B 0 - disables I, A, B	String	1
VmeCard	identifies the VME card, can be 0 or 1, default: 0	int	0

OmsVme58 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.
CheckMove	DEV_VOID	DEV_LONG	OPERATOR	the function returns 1, if the motor is moving
CompleteMove	DEV_VOID	DEV_LONG	OPERATOR	waits for the move to be finished, does the backlash, if FlagBacklash
GetRegister	DEV_VOID	DEV_LONG	OPERATOR	returns the stepper controller register contents, hardware
GetPosition	DEV_VOID	DEV_DOUBLE	OPERATOR	None.
SetRegister	DEV_LONG	DEV_LONG	OPERATOR	loads the motor register with a value, the hardware
SetupStepMove	DEV_LONG	DEV_LONG	OPERATOR	prepares a move, takes backlash into account, sets FlagMotorReady

SetupUnitMove	DEV_DOUBLE	DEV_LONG	OPERATOR	prepares a move, calculates the new step position from the argument, the calibration value and the conversion factor, takes backlash into account, sets FlagMotorReady
StartMove	DEV_VOID	DEV_LONG	OPERATOR	a motor with FlagMotorReady is started, the function returns immediately
StopMove	DEV_VOID	DEV_LONG	OPERATOR	stop a movement, return immediately, don't wait for deceleration, don't do backlash
Move	DEV_DOUBLE	DEV_LONG	OPERATOR	Setup motor, start move, complete move.
GetStepPosition	DEV_VOID	DEV_LONG	OPERATOR	Returns the motor position in steps in case the internal and the controller stored positions agree. In other case it gives an error.
SetStepPosition	DEV_LONG	DEV_LONG	OPERATOR	If StepPositionInternal != StepPositionController, an exception is thrown
ResetMotor	DEV_VOID	DEV_LONG	OPERATOR	Reset the motor
Calibrate	DEV_DOUBLE	DEV_LONG	OPERATOR	Calibrate the motor: current position is calibrated to be the value given as an argument
UserCalibrate	DEV_DOUBLE	DEV_LONG	OPERATOR	User an user calibration for calibrating the motor keeping the general one.
SetStepRegister	DEV_LONG	DEV_LONG	OPERATOR	This command changes the internal value and the controller. The unit position remains unchanged
MoveHome	DEV_VOID	DEV_LONG	OPERATOR	executes the encoder homing procedure
CalibrateEncoder	DEV_VOID	DEV_VOID	OPERATOR	Uses the current motor unit position and the encoder home position to load the encoder raw position.
WriteRead	DEV_STRING	DEV_STRING	OPERATOR	Sends a command to the controller and returns the answer. The axis specification is automatically added to the command.
MoveToCwLimit	DEV_VOID	DEV_LONG	OPERATOR	Moves the motor until the CW limit is reached (positive step direction, MA214700000). Software limits are ignored. StopMove works.
MoveToCcwLimit	DEV_VOID	DEV_LONG	OPERATOR	Moves the motor until the CCW limit is reached (negative step direction, MA-214700000). Software limits are ignored. StopMove works.
ThreadAction	DEV_VOID	DEV_VOID	OPERATOR	Allows threads to execute preselected actions in the main thread
movevc	DEVVAR_STRINGARRAY	DEV_LONG	OPERATOR	executes a move using the variable velocity feature - the end positions of the segments have to be ordered - the current position has to comply with the order of the segments - no backlash is executed - the motor must not be in a limit - the motor must not be in closed loop - at the end of the last segment, the motor is decelerated to base - the collision check is done for the end position of the last segment

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 CheckMove :

the function returns 1, if the motor is moving

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

Command CompleteMove :

waits for the move to be finished, does the backlash, if FlagBacklash

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Complete Move Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_LONG	return status of execution
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command GetRegister :

returns the stepper controller register contents, hardware

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

Command GetPosition :

GetPosition Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_DOUBLE	the position
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SetRegister :

loads the motor register with a value, the hardware

SetRegister Definition		
Input Argument	Tango::DEV_LONG	the new register contents
Output Argument	Tango::DEV_LONG	completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SetupStepMove :

prepares a move, takes backlash into account, sets FlagMotorReady

SetupStepMove Definition		
Input Argument	Tango::DEV_LONG	final position, in steps
Output Argument	Tango::DEV_LONG	completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SetupUnitMove :

prepares a move, calculates the new step position from the argument, the calibration value and the conversion factor, takes backlash into account, sets FlagMotorReady

SetupUnitMove Definition		
Input Argument	Tango::DEV_DOUBLE	final position, in units
Output Argument	Tango::DEV_LONG	completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command StartMove :

a motor with FlagMotorReady is started, the function returns immediately

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

Command StopMove :

stop a movement, return immediately, don't wait for de-acceleation, don't do backlash

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

Command Move :

Setup motor, start move, complete move.

Move Definition		
Input Argument	Tango::DEV_DOUBLE	Final position, in units
Output Argument	Tango::DEV_LONG	Completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT 	..

Command GetStepPosition :

Returns the motor position in steps in case the internal and the controller stored positions agree. In other case it gives an error.

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

Command SetStepPosition :

If StepPositonInternal != StepPositionController,
an exception is thrown

SetStepPosition Definition		
Input Argument	Tango::DEV_LONG	argin is stored in the internal and controller registers, changing the motor position, if internal == controller. To resolve conflicts, write directly to the internal or controller register
Output Argument	Tango::DEV_LONG	Completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ResetMotor :

Reset the motor

ResetMotor Definition		
Input Argument	Tango::DEV_VOID	

Output Argument	Tango::DEV_LONG	Completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Calibrate :

Calibrate the motor: current position is calibrated to be the value given as an argument

Calibrate Definition		
Input Argument	Tango::DEV_DOUBLE	Value to be calibrated
Output Argument	Tango::DEV_LONG	Completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command UserCalibrate :

User an user calibration for calibrating the motor keeping the general one.

UserCalibrate Definition		
Input Argument	Tango::DEV_DOUBLE	Value to be calibrated
Output Argument	Tango::DEV_LONG	Completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command SetStepRegister :

This command changes the internal value and the controller.
The unit position remains unchanged

SetStepRegister Definition		
Input Argument	Tango::DEV_LONG	argin is stored in the internal and controller registers, if internal == controller. The motor unit position is unchanged. To resolve conflicts, write directly to the internal or controller registers.
Output Argument	Tango::DEV_LONG	Completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command MoveHome :

executes the encoder homing procedure

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

Command CalibrateEncoder :

Uses the current motor unit position and the encoder home position to load the encoder raw position.

CalibrateEncoder 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 WriteRead :

Sends a command to the controller and returns the answer. The axis specification is automatically added to the command.

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

Command MoveToCwLimit :

Moves the motor until the CW limit is reached (positive step direction, MA21470000). Software limits are ignored. StopMove works.

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

Command MoveToCcwLimit :

Moves the motor until the CCW limit is reached (negative step direction, MA-21470000). Software limits are ignored. StopMove works.

MoveToCcwLimit Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_LONG	completion status
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..

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

Command ThreadAction :

Allows threads to execute preselected actions in the main thread

ThreadAction 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 movevc :

- executes a move using the variable velocity feature
- the end positions of the segments have to be ordered
 - the current position has to comply with the order of the segments
 - no backlash is executed
 - the motor must not be in a limit
 - the motor must not be in closed loop
 - at the end of the last segment, the motor is decelerated to base
 - the collision check is done for the end position of the last segment

movevc Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	a list of strings representing the segments: ``slew:50000, position: 0.1``, ``slew: 30000, position: 0.2``, ``slew: 40000, position: 0.3``
Output Argument	Tango::DEV_LONG	1, if the setup was OK and the move could be started
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..



OmsVme58 Class Attributes

Name	Inherited	Abstract	Attr. type	R/W type	Data type	Level	Description
Acceleration	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	the acceleration
BaseRate	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	the motor starts to move with this rate, then accelerates
Conversion	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	the conversion factor, steps = conversion*units
FlagCalibrationDefined	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	set to 1, when the calibration is defined
FlagCalibrationUserDefined	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	set to 1, when the user calibration is defined
FlagConversionDefined	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	set to 1, when the conversion is defined
SettleTime	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	used by completeMove to wait after a motor comes to \nrest
SlewRate	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	the motor speed
SlewRateMax	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	the maximum slew rate
SlewRateMin	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	the minumum slew rate
StepBacklash	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	backlash is used for movements which have NOT\n (steps > 0 && StepBacklash) > 0 \n (steps < 0 && StepsBacklash) < 0
StepCalibration	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	see the description of unitCalibration
StepCalibrationUser	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	this value may be changed by the user, it is an offset to\nstepCalibration, see the explanations at unitCalibration
StepLimitMax	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	corresponds to the upper unit limit, changing on affects the other
StepLimitMin	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	corresponds to unit limit min, changing one affects the other
StepPositionInternal	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	the internal (Software) position
StepPositionController	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	the controller (Software) position
UnitBacklash	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	this value corresponds to stepBacklash, changing one\nchanges the other, see the explanations given \nfor stepBacklash
UnitCalibration	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	the calibration point is specified by a unit position and\nthe corresponding step position, the formular for\nunits2steps is then: \n\nsteps = stepsCalibration + conversion*(unit - unitCalibration)

UnitCalibrationUser	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	this value may be changed by the user, an offset to the \nunitCalibration, see the explanation there
UnitLimitMax	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	the upper motor limit
UnitLimitMin	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	the lower limit of a motor
DerivativeGain	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
IntegralGain	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
ProportionalGain	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
TotalMoveTime	false	false	Scalar	READ	Tango::DEV_FLOAT	OPERATOR	
RemainingTime	false	false	Scalar	READ	Tango::DEV_FLOAT	OPERATOR	
CwLimit	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	
CcwLimit	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	
FlagProtected	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	Protection mask
Magnitude	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	
FlagMotorReady	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	
FlagBacklash	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	Internally set to 1 if a backlash compensation will be performed at the end of the current movement. It shows always 0 if the motor is not moving or a backlash will not be added at the end of the started movement.
Position	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	
AccuLimitMin	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	
AccuLimitMax	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	
FlagEncoderConversionDefined	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	1 if the conversion factor of the encoder was defined
FlagEncoderHomeDefined	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	1 if the encoder home position was defined
FlagEncoderHomed	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	1 if the encoder went through a homing procedure. Can be set \nafter a server restart, if VME stayed on.
ConversionEncoder	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	the encoder conversion factor
HomePosition	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	the unit position of the encoder home switch
PositionEncoder	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	the motor position calculated from the encoder reading, \nthe encoder conversion and the encoder home position
FlagUseEncoderPosition	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	if 1, the server returns the encoder position when asked \nfor the motor position
PositionEncoderRaw	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	the raw value from the encoder, does not involve a home position, \na homing

							procedure, etc.
FlagClosedLoop	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	closed loop stepping mode on/off
SlewRateCorrection	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	the maximum slew used in closed loop corrections
StepDeadBand	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	dead band in encoder counts (steps * encConv/Conv)
CorrectionGain	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	[1,32000], SlewCorr = CorrGain*PositionError (but\n< SlewRateCorrection)
SlipTolerance	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	slit tolerance, in encoder units, [0,65535]
CutOrMap	false	false	Scalar	READ_WRITE	Tango::DEV_DOUBLE	OPERATOR	the value of the cut/mapping point, for explanations\nsee flagCutOrMap
FlagInvertEncoderDirection	false	false	Scalar	READ_WRITE	Tango::DEV_LONG	OPERATOR	
EncoderRatio	false	false	Scalar	READ	Tango::DEV_DOUBLE	OPERATOR	the output of the ER? command
FlagCutOrMap	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	mirror the state of the FlagCutOrMap property, \nread-only
HomeStatusBits	false	false	Scalar	READ	Tango::DEV_LONG	OPERATOR	represents the status of the home switch bits
RecentWrites	false	false	Spectrum	READ	Tango::DEV_STRING	OPERATOR	A debugging tool. This array contains records about the \nrecent write operations to the server.

There is no dynamic attribute defined.

Attribute Acceleration :

the acceleration

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	true
Write hardware at init.	true

Attribute Properties	
label	
unit	steps/second**2
standard unit	
display unit	
format	%7.2f
max_value	
min_value	
max_alarm	
min_alarm	

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

Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> MOVING FAULT

max_warning	
min_warning	
delta_time	
delta_val	

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 BaseRate :

the motor starts to move with this rate, then accelerates

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> MOVING FAULT

Attribute Properties	
label	
unit	steps/second
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 Conversion :

the conversion factor, steps = conversion*units

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	true

Attribute Properties	
label	
unit	steps/unit
standard unit	
display unit	
format	%7.2f
max_value	
min_value	
max_alarm	

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

Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> MOVING FAULT

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 FlagCalibrationDefined :

set to 1, when the calibration is defined

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	flag
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	false

Attribute FlagCalibrationUserDefined :

set to 1, when the user calibration is defined

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	flag
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	

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

min_warning	
delta_time	
delta_val	

Push DataReady event by user code	false
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Attribute FlagConversionDefined :

set to 1, when the conversion is defined

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	flag
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	false

Attribute SettleTime :

used by completeMove to wait after a motor comes to \nrest

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	true
Write hardware at init.	true
Read allowed for	All states
	• MOVING

Attribute Properties	
label	
unit	seconds
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	

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

Write NOT allowed for • FAULT

delta_val	
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Attribute SlewRate :

the motor speed

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

Attribute Properties	
label	
unit	steps/second
standard unit	
display unit	
format	%7.2f
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 SlewRateMax :

the maximum slew rate

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

Attribute Properties	
label	
unit	steps/second
standard unit	
display unit	
format	%7.2f
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 SlewRateMin :

the minimum slew rate

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

Attribute Properties	
label	
unit	steps/second
standard unit	
display unit	
format	%7.2f
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 StepBacklash :

backlash is used for movements which have NOT\n (steps> 0 && StepBacklash)> 0 ||\n (steps < 0 && StepsBacklash) < 0

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

Attribute Properties	
label	
unit	step
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 StepCalibration :

see the description of unitCalibration

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none">• MOVING• FAULT

Attribute Properties	
label	
unit	steps
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 StepCalibrationUser :

this value may be changed by the user, it is an offset to \nstepCalibration, see the explanations at unitCalibration

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none">• MOVING• FAULT

Attribute Properties	
label	
unit	steps
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 StepLimitMax :

corresponds to the upper unit limit, changing on affects the other

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

Attribute Properties	
label	
unit	steps
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 StepLimitMin :

corresponds to unit limit min, changing one affects the other

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	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	steps
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 StepPositionInternal :

the internal (Software) position

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	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	steps
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 StepPositionController :

the controller (Software) position

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	true
Write hardware at init.	Not set
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	steps
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 UnitBacklash :

this value corresponds to stepBacklash, changing one\nchanges the other, see the explanations given \nfor stepBacklash

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 NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

Attribute Properties	
label	
unit	units
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 UnitCalibration :

the calibration point is specified by a unit position and the corresponding step position, the formular for units2steps is then: $nsteps = stepsCalibration + conversion * (unit - unitCalibration)$

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

Attribute Properties	
label	
unit	units
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 UnitCalibrationUser :

this value may be changed by the user, an offset to the unitCalibration, see the explanation there

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	true
Write hardware at init.	true
Read allowed for	All states
Write NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

Attribute Properties	
label	
unit	units
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 UnitLimitMax :

the upper motor limit

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 NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

Attribute Properties	
label	
unit	units
standard unit	
display unit	
format	%7.2f
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 UnitLimitMin :

the lower limit of a motor

Attribute Definition	
Attribute Type	Scalar

Attribute Properties	
label	

Attribute Event Criteria	
Periodic	Not set

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 NOT allowed for	<ul style="list-style-type: none"> • MOVING • FAULT

unit	units
standard unit	
display unit	
format	%7.2f
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 DerivativeGain :

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	true
Write hardware at init.	true
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

Attribute IntegralGain :

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

Attribute Properties	
label	
unit	
standard unit	
display unit	
format	

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

Abstract	false
Polling Period	Not polled
Memorized	true
Write hardware at init.	true
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 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 ProportionalGain :

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	true
Write hardware at init.	true
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

Attribute TotalMoveTime :

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_FLOAT
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	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	

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

min_warning	
delta_time	
delta_val	

Push DataReady event by user code	Not set
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Attribute RemainingTime :

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_FLOAT
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	
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 CwLimit :

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	
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 CcwLimit :

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	
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 FlagProtected :

Protection mask

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	true
Write hardware at init.	true
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

Attribute Magnitude :

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	
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 FlagMotorReady :

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	
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	false

Attribute FlagBacklash :

Internally set to 1 if a backlash compensation will be performed at the end of the current movement.
It shows always 0 if the motor is not moving or a backlash will not be added at the end of the started movement.

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	
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	false

Attribute Position :

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

Attribute AccuLimitMin :

Attribute Definition	
Attribute Type	Scalar
R/W Type	READ
Data Type	Tango::DEV_LONG

Attribute Properties	
label	
unit	
standard unit	
display unit	

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

Display Level Inherited	OPERATOR false
Abstract	false
Polling Period	Not polled
Memorized	Not set
Read allowed for	All states

format	
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 AccuLimitMax :

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	
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 FlagEncoderConversionDefined :

1 if the conversion factor of the encoder was defined

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

Attribute Properties	
label	
unit	flag
standard unit	
display unit	
format	
max_value	
min_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

Memorized	Not set
Read allowed for	All states

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	false

Attribute FlagEncoderHomeDefined :

1 if the encoder home position was defined

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	flag
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	false

Attribute FlagEncoderHomed :

1 if the encoder went through a homing procedure. Can be set\nafter a server restart, if VME stayed on.

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

Attribute Properties	
label	
unit	flag
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	

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

Write allowed for	All states
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min_warning	
delta_time	
delta_val	

Push DataReady event by user code	Not set
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Attribute ConversionEncoder :

the encoder conversion factor

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	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	steps/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 HomePosition :

the unit position of the encoder home switch

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	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	steps/unit
standard unit	
display unit	
format	
max_value	
min_value	
max_alarm	
min_alarm	
max_warning	
min_warning	
delta_time	

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

delta_val	
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Attribute PositionEncoder :

the motor position calculated from the encoder reading,\nthe encoder conversion and the encoder home position

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	
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 FlagUseEncoderPosition :

if 1, the server returns the encoder position when asked \nfor the motor position

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	true
Write hardware at init.	Not set
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	flag
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 PositionEncoderRaw :

the raw value from the encoder, does not involve a home position, \na homing procedure, etc.

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	
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 FlagClosedLoop :

closed loop stepping mode on/off

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	flag
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 SlewRateCorrection :

the maximum slew used in closed loop corrections

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	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	steps/second
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 StepDeadBand :

dead band in encoder counts (steps * encConv/Conv)

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	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	step
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 CorrectionGain :

[1,32000], SlewCorr = CorrGain*PositionError (but n< SlewRateCorrection)

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	true
Write hardware at init.	true
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

Attribute SlipTolerance :

slit tolerance, in encoder units, [0,65535]

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	true
Write hardware at init.	true
Read allowed for	All states
Write allowed for	All states

Attribute Properties	
label	
unit	step
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 CutOrMap :

the value of the cut/mapping point, for explanations\nsee flagCutOrMap

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	true
Write hardware at init.	true
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

Attribute FlagInvertEncoderDirection :

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	true
Write hardware at init.	true
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

Attribute EncoderRatio :

the output of the ER? command

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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	
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 FlagCutOrMap :

mirror the state of the FlagCutOrMap property, \nread-only

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	flag
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 HomeStatusBits :

represents the status of the home switch bits

Attribute Definition	

Attribute Properties	

Attribute Event Criteria	
Periodic	Not set

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

label	homeSwitchStatusBits
unit	statusBits
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	false

Attribute RecentWrites :

A debugging tool. This array contains records about the \nrecent write operations to the server.

Attribute Definition	
Attribute Type	Spectrum (500)
R/W Type	READ
Data Type	Tango::DEV_STRING
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	
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

OmsVme58 Class States	
Name	Description
MOVING *	
FAULT *	

ON	motor is idle
ALARM	If FlagUseCollisionsSensor is set to 1, but the connection to the CollisionsSensor device was not successful.