





TANGO Device Server

SY900S_Channel User's Guide

SY900S_Channel Class

Revision: release_2_1_0 - Author: sebleport Implemented in C++

Introduction:

this device controls one channel of the SY900S rack

Class Inheritance:

Tango::Device_3ImplSY900S_Channel

Properties:

	Device Pr	operties
Property name	Property type	Description
GroupNumber	Tango::DEV_LONG	one group is consisted of severals channels. this property assigns the group number.
ChannelNumber	Tango::DEV_LONG	one channel is contained inside one group, this property assigns the channel number
SY900SGenericProxyName	Tango::DEV_STRING	SY900S Generic Proxy Name

Device Properties Default Values:

Property Name	Default Values
GroupNumber	No default value
ChannelNumber	No default value
SY900SGenericProxyName	No default value

There is no Class properties.

States:

	States
Names	Descriptions
STANDBY	the voltage is applied on the channel
OFF	the voltage is not yet applied on the channel
FAULT	a communication problem or out of memory occured
RUNNING	voltage is changing

Attributes:

Scalar Attributes	S		
Attribute name	Data Type	R/W Type	Expert
voltage: is the output voltage of the channel	DEV_DOUBLE	READ_WRITE	No
deltaVoltage: shift voltage to apply on the channel	DEV_DOUBLE	WRITE	No
targetVoltage: Voltage preset to reach. The voltage is not applied after setting it. A set_voltage group command is able to apply preset voltage on all channels	DEV_DOUBLE	WRITE	No
channel: channel number	DEV_LONG	READ	No
group: group number	DEV_LONG	READ	No

Commands:

More Details on commands....

Device Commands for Operator Leve		erator Level
Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING

1 - Init

Description: This commands re-initialise a device keeping the same network connection.
 After an Init command executed on a device, it is not necessary for client to re-connect to the device.
 This command first calls the device delete_device() method and then execute its init_device() method.

 For C++ device server, all the memory allocated in the nit_device() method must be freed in the delete_device() method.
 The language device descructor automatically calls the delete_device() method.

• Argin:

DEV_VOID : none.

• Argout:

DEV_VOID : none.

Command allowed for:

O Tango::STANDBY
O Tango::OFF

O Tango::OFF
O Tango::FAULT
O Tango::RUNNING

Do Do Do Do Do Do Ta	escription: This command gets the device state (stored in its device_state data member) and returns it to the caller. rgin: EV_VOID: none. rgout: EV_STATE: State Code command allowed for: ango::STANDBY ango::OFF
Di Ai Di Co Ta Ta Ta	EV_VOID: none. rgout: EV_STATE: State Code ommand allowed for: ango::STANDBY ango::OFF
D) Co Ta Ta Ta	ev_STATE : State Code command allowed for: ango::STANDBY ango::OFF
) Та) Та) Та	ango::STANDBY ango::OFF
	ango::FAULT ango::RUNNING
3	- Status
Do	escription: This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller.
	rgin: EV_VOID : none.
	rgout: ONST_DEV_STRING: Status description
) Та) Та) Та	ommand allowed for: ango::STANDBY ango::OFF ango::FAULT ango::RUNNING









TANGO Device Server

SY900S_Channel User's Guide

SY900S_Channel Class

Revision: release_2_1_0 - Author: sebleport Implemented in C++

Introduction:

this device controls one channel of the SY900S rack

Class Inheritance:

• Tango::Device_3Impl
• SY900S_Channel

Properties:

	Device Pr	operties
Property name	Property type	Description
GroupNumber	Tango::DEV_LONG	one group is consisted of severals channels. this property assigns the group number.
ChannelNumber	Tango::DEV_LONG	one channel is contained inside one group, this property assigns the channel number
SY900SGenericProxyName	Tango::DEV_STRING	SY900S Generic Proxy Name

Device Properties Default Values:

Property Name	Default Values
GroupNumber	No default value
ChannelNumber	No default value
SY900SGenericProxyName	No default value

There is no Class properties.

States:

	States
Names	Descriptions
STANDBY	the voltage is applied on the channel
OFF	the voltage is not yet applied on the channel
FAULT	a communication problem or out of memory occured
RUNNING	voltage is changing

Attributes:

Scalar Attributes	S		
Attribute name	Data Type	R/W Type	Expert
voltage: is the output voltage of the channel	DEV_DOUBLE	READ_WRITE	No
deltaVoltage: shift voltage to apply on the channel	DEV_DOUBLE	WRITE	No
targetVoltage: Voltage preset to reach. The voltage is not applied after setting it. A set_voltage group command is able to apply preset voltage on all channels	DEV_DOUBLE	WRITE	No
channel: channel number	DEV_LONG	READ	No
group: group number	DEV_LONG	READ	No

Commands:

More Details on commands....

Device Commands for Operator Leve		erator Level
Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING

1 - Init

Description: This commands re-initialise a device keeping the same network connection.
 After an Init command executed on a device, it is not necessary for client to re-connect to the device.
 This command first calls the device delete_device() method and then execute its init_device() method.

 For C++ device server, all the memory allocated in the nit_device() method must be freed in the delete_device() method.
 The language device descructor automatically calls the delete_device() method.

• Argin:

DEV_VOID : none.

• Argout:

DEV_VOID : none.

Command allowed for:

O Tango::STANDBY
O Tango::OFF

O Tango::OFF
O Tango::FAULT
O Tango::RUNNING

Do Do Do Do Do Do Ta	escription: This command gets the device state (stored in its device_state data member) and returns it to the caller. rgin: EV_VOID: none. rgout: EV_STATE: State Code command allowed for: ango::STANDBY ango::OFF
Di Ai Di Co Ta Ta Ta	EV_VOID: none. rgout: EV_STATE: State Code ommand allowed for: ango::STANDBY ango::OFF
D) Co Ta Ta Ta	ev_STATE : State Code command allowed for: ango::STANDBY ango::OFF
) Та) Та) Та	ango::STANDBY ango::OFF
	ango::FAULT ango::RUNNING
3	- Status
Do	escription: This command gets the device status (stored in its <i>device_status</i> data member) and returns it to the caller.
	rgin: EV_VOID : none.
	rgout: ONST_DEV_STRING: Status description
) Та) Та) Та	ommand allowed for: ango::STANDBY ango::OFF ango::FAULT ango::RUNNING

Frame Alert
This document is designed to be viewed using the frames feature. If you see this message, you are using a non-frame-capable web client. Link to Non-frame version.









TANGO Device Server

SY900S_Channel Device Commands Description SY900S_Channel Class

Revision: release_2_1_0 - Author: sebleport

1 - Init

• **Description:** This commands re-initialise a device keeping the same network connection. After an Init command executed on a device, it is not necessary for client to re-connect to the device

This command first calls the device *delete_device()* method and then execute its *init_device()* method.

For C++ device server, all the memory allocated in the *nit_device()* method must be freed in the *delete_device()* method.

The language device descructor automatically calls the *delete_device()* method.

• Argin:

DEV_VOID: none.

• Argout:

DEV VOID: none.

- Command allowed for:
 - Tango::STANDBY
 - Tango::OFF
 - O Tango::FAULT
 - O Tango::RUNNING

2 - State

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

DEV_VOID: none.

Argout:

DEV_STATE: State Code

• Command allowed for:

○ Tango::STANDBY

○ Tango::OFF

Tango::FAULTTango::RUNNING

3 - Status

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

• Argin:

DEV_VOID: none.

• Argout:

CONST_DEV_STRING: Status description

• Command allowed for:

○ Tango::STANDBY

O Tango::OFF

O Tango::FAULT

O Tango::RUNNING

ESRF - Software Engineering Group