TANGO
Device
Server

TANGO Device Server
User's Guide

HqpsAlarm Class

Revision: rtag - Author: goudard
Implemented in Python

Introduction:

This class creates a high level device which will send an e-mail in case it switches to the ALARM state

Class Inheritance:

- PyTango.Device_4Impl
  - HqpsAlarm

Properties:

Device Properties		
Property name	**Property type**	**Description**
Devices	Tango::DEVVAR_STRINGARRAY	List of low-level devices used to build global state
Message	Tango::DEV_STRING	The email message
From	Tango::DEV_STRING	The email From field
To	Tango::DEVVAR_STRINGARRAY	The email To field
Subject	Tango::DEV_STRING	The email subject
Threshold	Tango::DEV_DOUBLE	The threshold triggering the ALARM
Hysteresis	Tango::DEV_LONG	The hysteresis factor to be applied threshold to re-enable sending a mail related to a sub-device after one has been already sent
Attribute	Tango::DEV_STRING	The attribute name used to trigger the alarm

Device Properties Default Values:

Property Name	Default Values
Devices	No default value
Message	No default value
From	dserver@esrf.fr
To	dserver@esrf.fr
Subject	Alarm on machine
Threshold	0.0
Hysteresis	50
Attribute	NoName

There is no Class properties.

States:

States	
Names	**Descriptions**
ON	All low level devices are ON
ALARM	At least, one of the low-level devices are in ALARM state

Commands:

More Details on commands....

Device Commands for Operator 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 desctructor automatically calls the *delete_device()* method.

- **Argin:**
  DEV_VOID : none.

- **Argout:**
  DEV_VOID : none.

- **Command allowed for:**
  - Tango::ON
  - Tango::ALARM

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::ON
  - Tango::ALARM

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::ON
  - Tango::ALARM