Alarm Quick Installation Guide

alarm-srv device server

1) Sources download:
- download from http://www.tango-controls.org/media/filer_public/59/4f/594ff616-5546-4f19-a1f8-177cb8d41688/alarmtar.gz

2) Compilation
- adjust Tango, OmniOrb, ZeroMQ paths in Make-9.2.2.in
- run `make`
- copy `bin/alarm-srv` in your device servers directory

3) Database Setup
- create database, for example with name *alarm*,
example accessing mysql from the same host in which it runs
`mysql -uroot -p -e "CREATE DATABASE IF NOT EXISTS alarm;"`
example accessing mysql from a remote host
`mysql -h mysql_host -uroot -p -e "CREATE DATABASE IF NOT EXISTS alarm;"`

- create user *username* protected with *password*,
example if alarm device server is going to run on the same host as mysql:
`mysql -uroot -p -e "GRANT ALL ON alarm.* TO 'username'@'localhost' IDENTIFIED BY 'password';FLUSH PRIVILEGES;"`
example if alarm device server are going to run on a different host than mysql called *alarm_host*:
`mysql -uroot -p -e "GRANT ALL ON alarm.* TO 'username'@'alarm_host' IDENTIFIED BY 'password';FLUSH PRIVILEGES;"`
add `-h mysql_host` if accessing mysql from a remote host

- create Alarm tables using `create_log_db.sql` file from etc directory in the sources:
`mysql -uusername -ppassword < create_log_db.sql`
add `-h mysql_host` if accessing mysql from a remote host

4) Jive configuration
- create in Jive as many instances as you need of alarm-srv

- add the following device properties for alarm-srv to specify the parameters for DB access:

`DbHost`
example: *mysql_host*
`DbUser`
example: *username*
`DbPassword`
example: *password*
`DbName`
example: *alarm*
`DbPort`
example: `3306`

- add the following device property for alarm-srv to specify the possible group names that can be used in each formula

`GroupNames`

example:

gr_none
gr_ctrl
gr_vacuum
...

- add the following device property for alarm-srv to specify the instance name to distinguish between different instances of alarm-srv accessing the same database

InstanceName

example: *instance_1*

- add the following device property for alarm-srv to set number of consecutive event errors before signalling it:

`ErrThreshold`

example: `3`

AlarmMail.py device server for email notification

1) Sources download:
- download from http://www.tango-controls.org/media/filer_public/06/94/0694bba1-b6b7-429c-a64f-b7930644bc31/alarmmailtar.gz

2) Copy `AlarmMail.py` in your device servers directory

3) Jive configuration
- create in Jive as many instances as you need of `AlarmMail.py`

- add the following device properties for alarm-srv to specify the parameters for email configuration:

`email_name:` specify the email name as seen by the receiver
`email_user:` specify the email user for the smtp server
`email_smtp:` specify the smtp server

- add the following device property for `AlarmMail.py` to specify the email address of the receivers (as a comma separated list) associated to the possible alarm group names

`receivers`

example:

gr_ctrl=ctrl1@elettra.eu,ctrl2@elettra.eu
gr_vacuum=vac@elettra.eu
…

alarmtest-srv device server for alarms test in the GUI

1) Sources download:
- download from http://www.tango-controls.org/media/filer_public/bf/e2/bfe2d3ed-d284-4cd1-9f48-7bed2a809321/alarmtesttar.gz

2) Compilation
- adjust Tango, OmniOrb, ZeroMQ paths in Make-9.2.2.in
- run `make`

- copy `bin/alarmtest-srv` in your device servers directory

3) Jive configuration
- create in Jive one instance of `alarmtest-srv`

- pass the tango name of the alarmtest-srv instance as an argument to the alarm GUI with the following syntax: `--alarm-test-devname`