

**USER’S**

**MANUAL**

*CometeTrend*

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**Revision Sheet**

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| --- | --- | --- |
| **Release No.** | **Date** | **Revision Description** |
| Rev. 0 | 18/09/15 | User’s Manual Created |
| Rev. 1 | 27/01/2017 | Add function like write data file and load configuration file |
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**Developers of the application**

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**APPLICATION NAME …USER'S MANUAL**

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# The main function of CometeTrend

## The main function of CometeTrend

CometeTrend contains different mode of function it can:

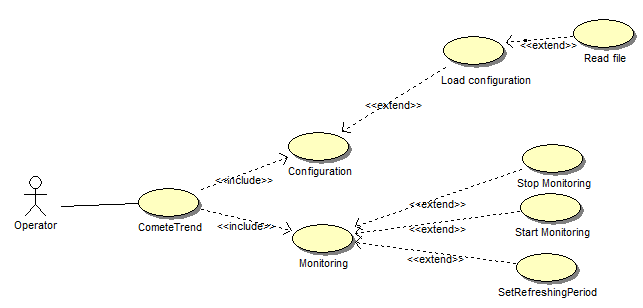
- This application uses the same configuration files that ATKTrend application.

- Write data file (like ATKTrendFiler application)

- Load data file generate by ATKTrendFiler

So CometeTrend displays curves values ​​of TANGO attributes. Using the graphic library "Comete".

**Use case of (Application Name…):**



## The devices with which it works

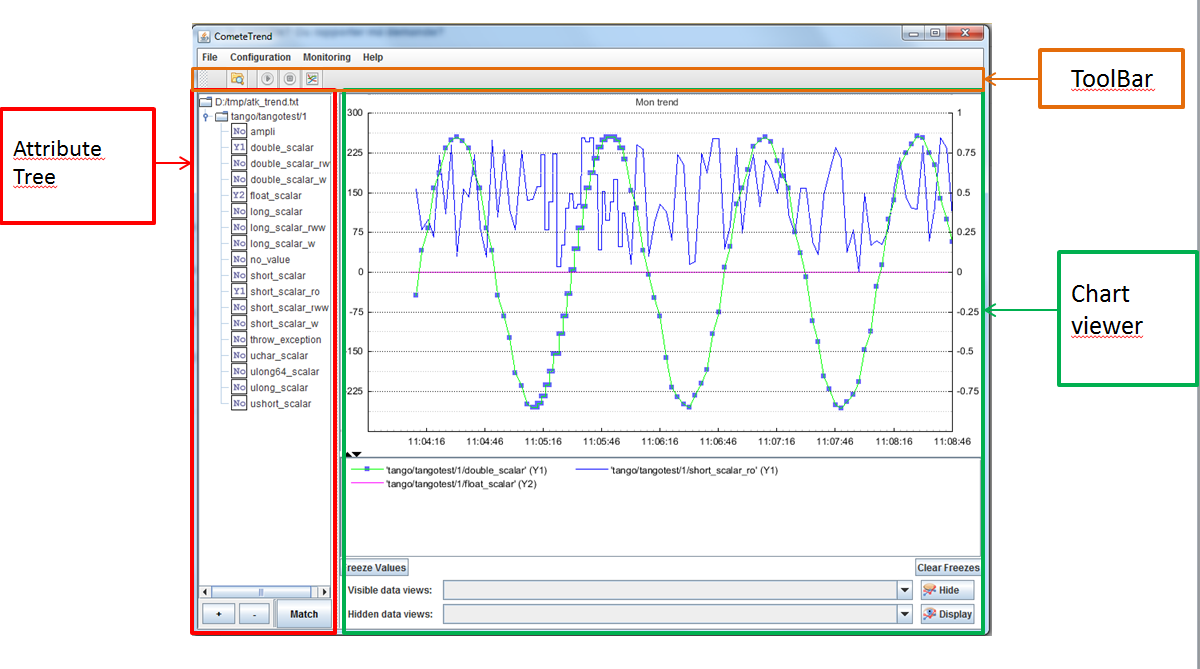
The application works with: The main function of CometeTrend is to read ATK files.

## The beamline using this application

Beamline using the application: All beamline can use this application.

# Application description

## Application description



**The ToolBar** is shortened. Can I use the button start, stop, change frequency and load file.

**The Attribute Tree** let’s see the attribute that contains the ATKTrend file.

**The Chart** **viewer** is the chart where you can viewed the attribute(s) selected.

# Open a ATKTrend file

## Open a ATKTrend file

* To open an ATK file, you must click on the “Load file“ button. And selected ATK file and open it.

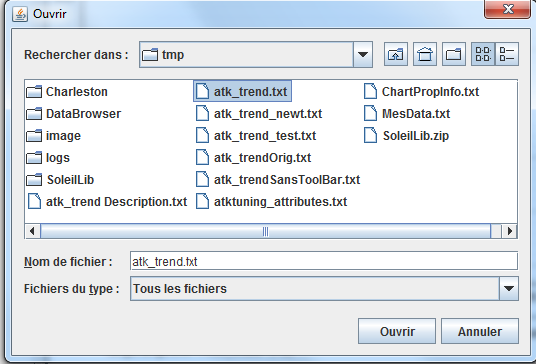
→ 1 - Button « Load file » on the ToolBar

C:\Users\rodrigues\Pictures\ScreenProjet\ButtonLoadFile.png

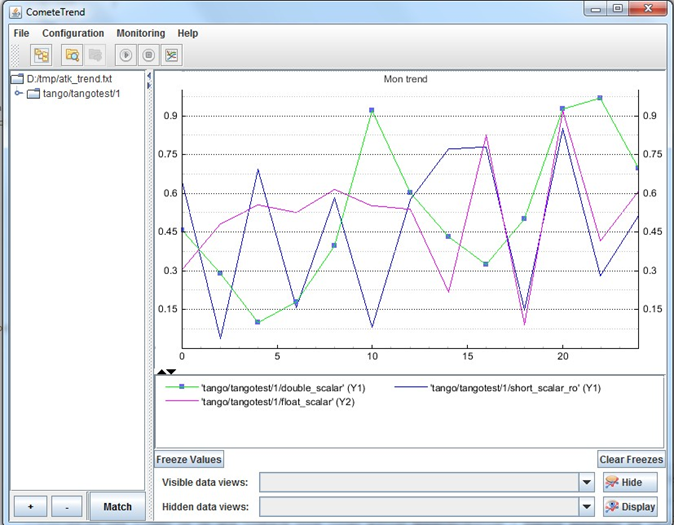
→ 2 - Button « Load file » in the Menu

C:\Users\rodrigues\Pictures\ScreenProjet\JMenuLoadFile.png

→ 3 - Selected ATK file



→ 4 - The ATK file is opened



Example of ATKTrendFile :

graph\_title:'Mon trend'

label\_visible:true

label\_placement:4

label\_font:Dialog,0,12

graph\_background:0,180,0

chart\_background:0,255,0

title\_font:Dialog,0,18

display\_duration:300000.0

precision:0

toolbar\_visible:true

tree\_visible:true

date\_visible:false

creation\_date:05/01/2015

window\_pos:421,158

window\_size:823,648

show\_device\_name:1

refresh\_time:3000

min\_refresh\_time:0

refresh\_interval\_trend:1000

xvisible:true

xgrid:false

xsubgrid:false

xgrid\_style:1

xmin:0.0

xmax:100.0

xautoscale:true

xscale:0

xformat:0

xtitle:'null'

xcolor:0,0,0

xlabel\_font:Dialog,0,11

xfit\_display\_duration:true

y1visible:true

y1grid:true

y1subgrid:true

y1grid\_style:1

y1min:0.0

y1max:100.0

y1autoscale:true

y1scale:0

y1format:0

y1title:'null'

y1color:0,0,0

y1label\_font:Dialog,0,11

y1fit\_display\_duration:true

y2visible:true

y2grid:false

y2subgrid:false

y2grid\_style:1

y2min:0.0

y2max:100.0

y2autoscale:true

y2scale:0

y2format:0

y2title:'null'

y2color:0,0,0

y2label\_font:Dialog,0,11

y2fit\_display\_duration:true

dv\_number:18

dv0\_name:'tango/tangotest/1/ampli'

dv0\_selected:0

dv0\_linecolor:255,0,0

dv0\_linewidth:1

dv0\_linestyle:0

dv0\_fillcolor:192,192,192

dv0\_fillmethod:2

dv0\_fillstyle:0

dv0\_viewtype:0

dv0\_barwidth:10

dv0\_markercolor:255,0,0

dv0\_markersize:6

dv0\_markerstyle:0

dv0\_A0:0.0

dv0\_A1:1.0

dv0\_A2:0.0

dv0\_labelvisible:true

dv0\_clickable:true

dv0\_labelColor:0,0,0

dv1\_name:'tango/tangotest/1/double\_scalar'

dv1\_selected:2

dv1\_linecolor:0,255,0

dv1\_linewidth:1

dv1\_linestyle:0

dv1\_fillcolor:192,192,192

dv1\_fillmethod:2

dv1\_fillstyle:0

dv1\_viewtype:0

dv1\_barwidth:10

dv1\_markercolor:102,102,255

dv1\_markersize:6

dv1\_markerstyle:2

dv1\_A0:0.0

dv1\_A1:1.0

dv1\_A2:0.0

dv1\_labelvisible:true

dv1\_clickable:true

dv1\_labelColor:0,0,0

# Write data file

## Write data file without graphical interface

To write the data in data file, it is necessary to have a configuration file like this:

# GeneratedFileName

D:\tmp\TrendFiler\datatrendfile.txt

# RefreshingPeriod

3000

# DateFormat

yyyy/MM/dd HH:mm:ss.SSS

!# DataSeparator

!# WindowBounds

!200,200,200,200

# AttributeList

tangotest1/double\_scalar

tangotest1/ampli

tangotest1/boolean\_scalar

tangotest1/short\_scalar

tangotest1/long\_scalar

tangotest1/long64\_scalar

tangotest1/ulong64\_scalar

tangotest1/ushort\_scalar

tango/tangotest/2/ampli

tango/tangotest/2/short\_scalar

This configuration file contains:

- # GeneratedFileName: The path and name of the generated data file.

- # RefreshingPeriod: The frequency of the refresh period.

- # DateForme: You can choose the format of the date in the data file.

- # DataSeparator: You can change the data separator.

- # AttributeList: This is the list of attributes you want to write to the data file.

- # WindowBounds: You can change window

bounds.

- “!”: You can use “!” for comment one line in the configuration file.

In argument when you launch CometeTrend application:

CometeTrend –nogui -/../myconfiguraton file

# Load configuration file with GRAPHICAL INTERFACE

## Load configuration file with graphical interface

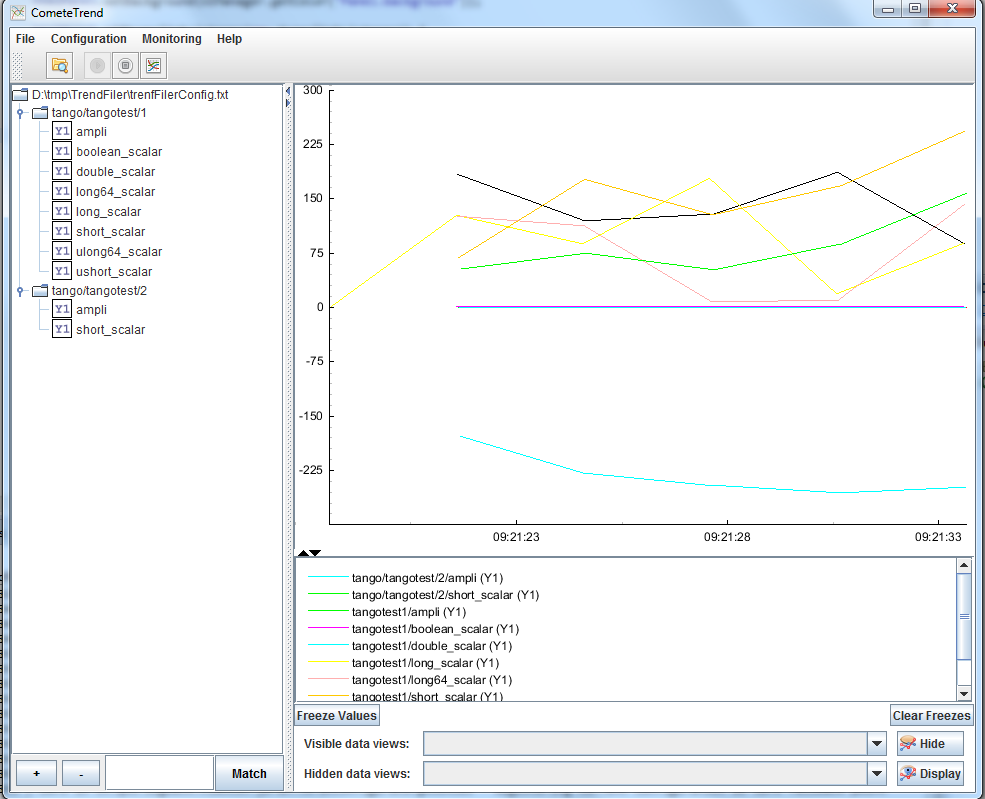
You can open a configuration file like in 4.1 with the graphical interface.

Open the file with the button “Load file”:

C:\Users\rodrigues\Pictures\ScreenProjet\JMenuLoadFile.png

But when you use this function to open a configuration file, it does not generate a data file.

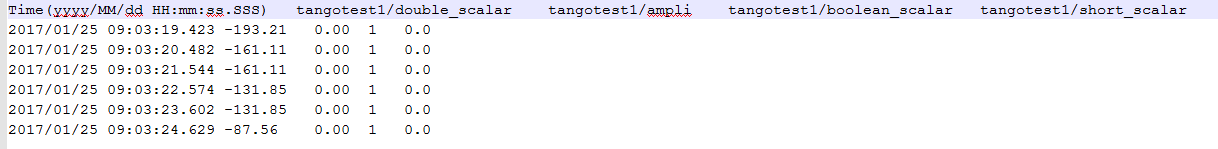
You can see in the chart the value of the attributes. Like this:



# Load data file generate with ATKTrendFiler (or CometeTrend)

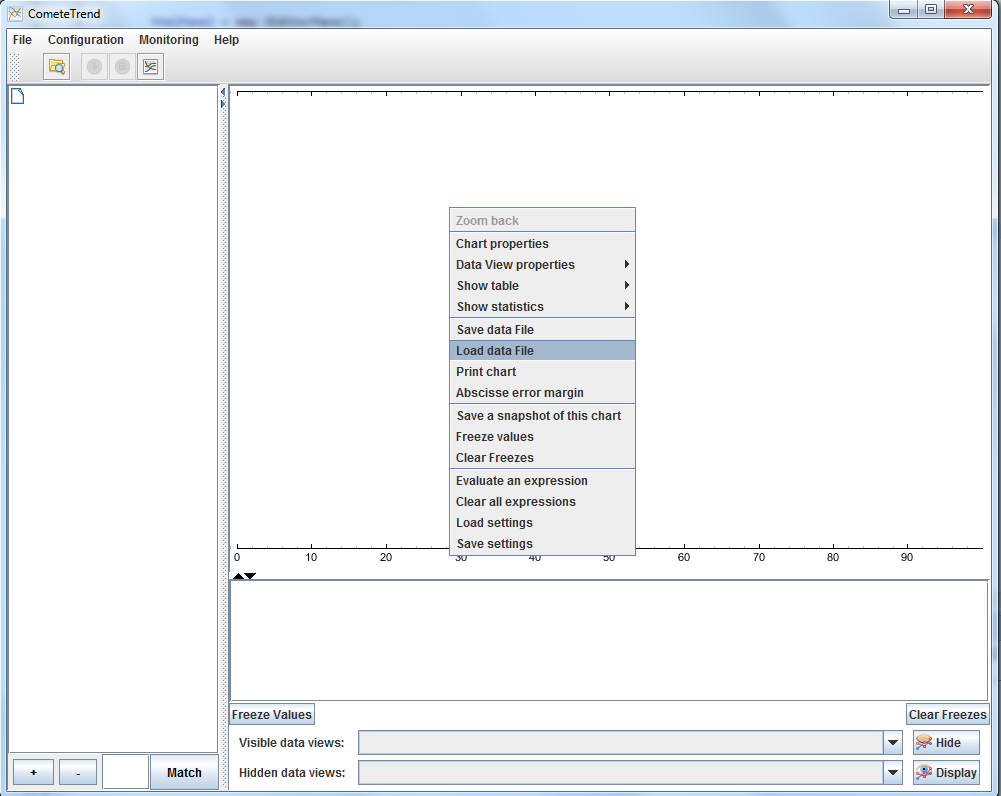
## Load data file generate with ATKTrendFiler (or CometeTrend)

Example of data file generated:



To read the data files it’s possible to:

* Using the right mouse button on the chart. And select “Load data file”, then select your data file.



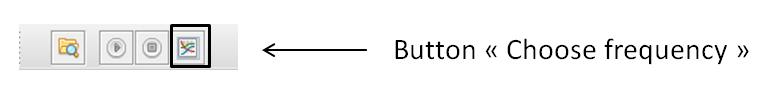
* In argument when you launch CometeTrend application:

CometeTrend -data -/../pathofmydatafile

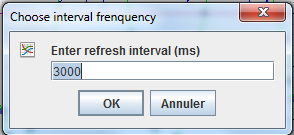
# Choose frequency and Show and hide ToolBar/Tree

## Choose the refresh interval frequency

* It is possible to change the refresh interval with the button “Choose frequency” in Menu.

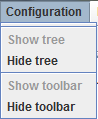


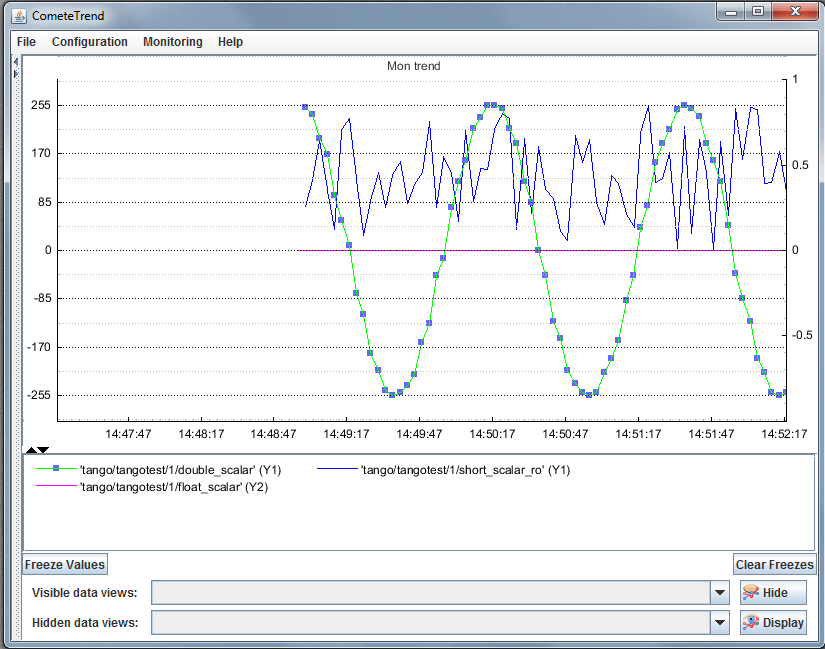
* A window will open. It will allow choosing the frequency of interval in milliseconds.



## Show and hide ToolBar/Tree

* You can hide the Toolbar and the Tree in the Menu in “Configuration”.



* CometeTrend with the Toolbar and Tree hide

# Start and stop function

## Start and stop the refresh interval

* The Toolbar contains buttons "START" and "STOP". The " STOP " button allows to stop the refresh of the curve. The "START" button allows to resume refresh before using the "STOP" button.



* If the application does not contain any ATK file to load the two buttons will be disabled.



* "STOP" button will be active just after a file loading. If the "STOP" button is activated the "START" button will be disable.
* The "Choose frequency" button is disabled when the refresh is stopped. It is only possible to change the refresh rate when "START" is triggered.



# Help documentation

## Help documentation

* This documentation is available clicking on Help menu

