Canone - operating an accelerator via web

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- Controling the machine anywhere www.myAccelerator.com
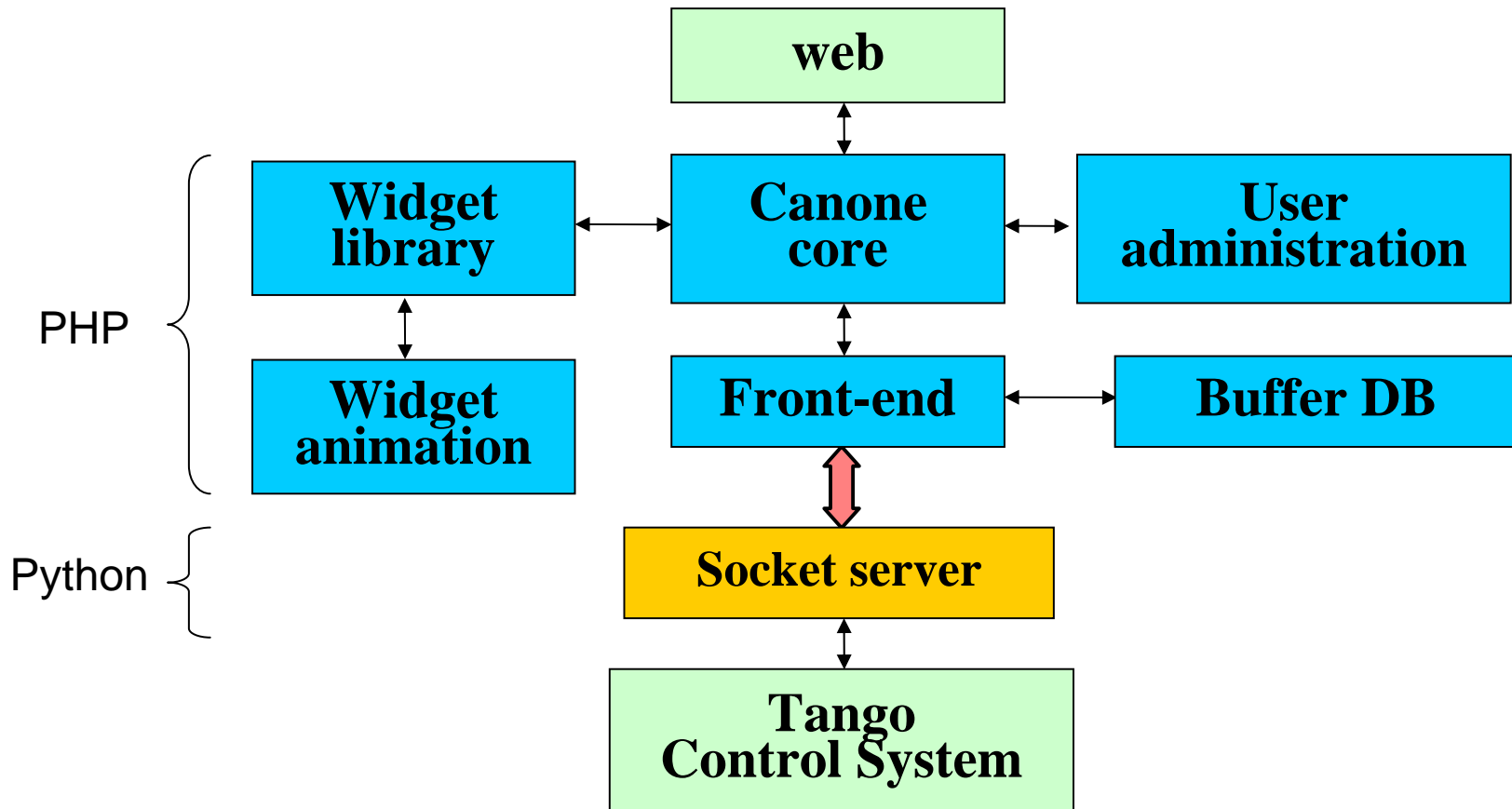
- Platform independant – just take your laptop

- **Security**
  - You are not alone on the internet - hackers

- **Reliability**
  - Performance of the control system must not be disturbed

- **Scalability**
  - Can you handle all the users
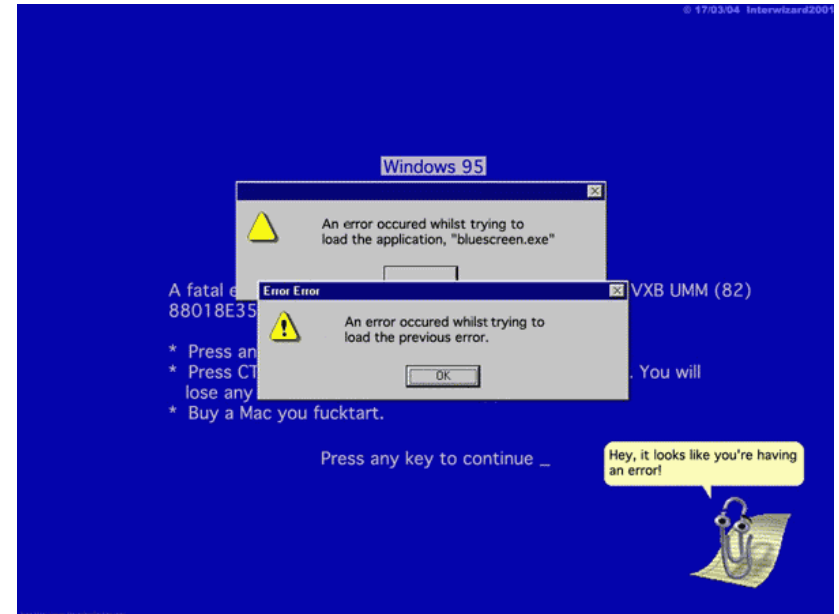
Reliable and safe solution
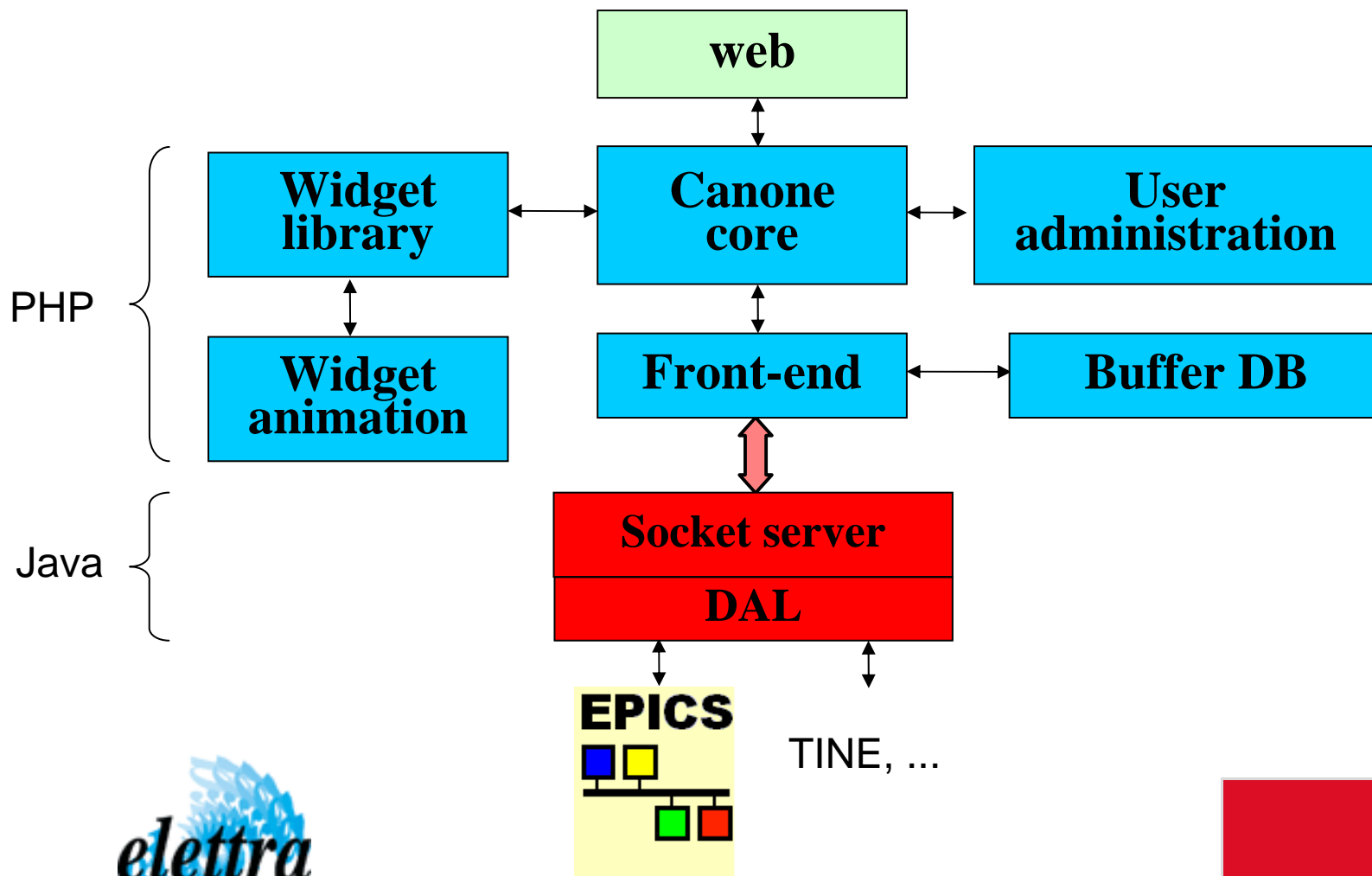

Internet

Web server

Socket server

Control system network
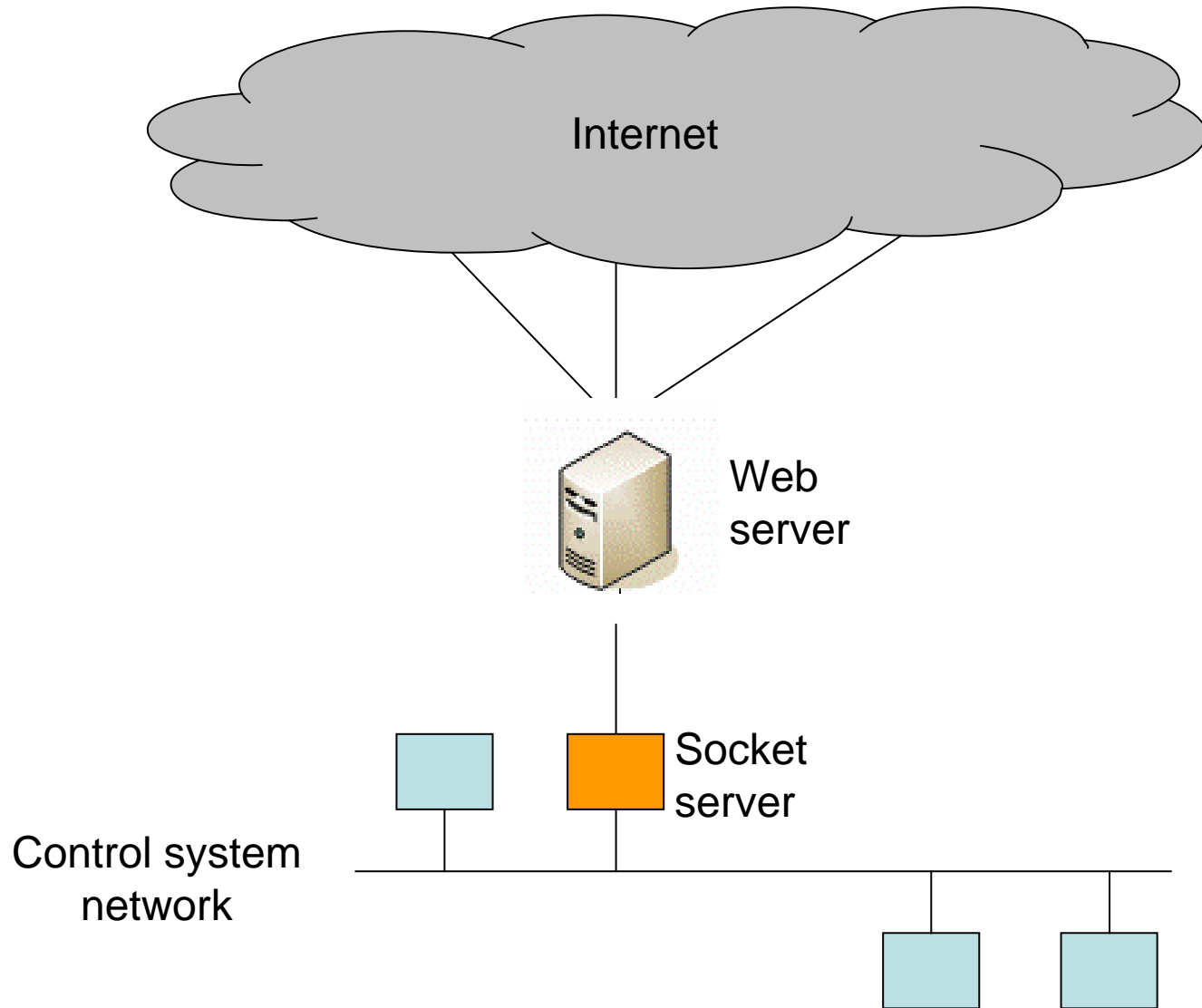
Canone 2.X – web interface for Tango control system


```
                              ┌─────────────┐
                              │     web     │
                              └─────────────┘
                                     ↕
┌──────────────┐          ┌─────────────┐          ┌──────────────────┐
│    Widget    │ ←──────→ │   Canone    │ ←──────→ │       User       │
│   library    │          │    core     │          │  administration  │
└──────────────┘          └─────────────┘          └──────────────────┘
       ↕                         ↕
┌──────────────┐          ┌─────────────┐          ┌──────────────────┐
│    Widget    │          │  Front-end  │ ←──────→ │    Buffer DB     │
│  animation   │          └─────────────┘          └──────────────────┘
└──────────────┘                 ↕
                          ┌─────────────┐
                          │ Socket server │
                          └─────────────┘
                                 ↕
                          ┌─────────────┐
                          │    Tango    │
                          │Control System│
                          └─────────────┘
```

PHP

Python

Main developer: Lucio Zambon

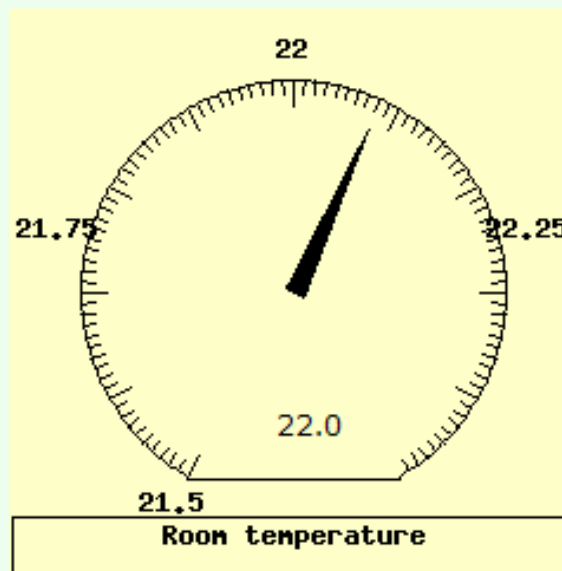# Canone 3.X – web interface for Tango control systems

PHP

Java

web

Widget library

Canone core

User administration

Widget animation

Front-end

Buffer DB

Socket server

DAL

EPICS

TINE, ...

elettra

Main developer: Lucio Zambon

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CONTROL SYSTEM LABORATORY

http://localhost/The_Canone/canone/canone.php?panelid=panel0001.xui

BBC NEWS | News Fr...   Google News   delo   CSL_Internal   CSL Wiki   OLGA   Glavna stran - Ljiki   MPS   gm

cosylab

Viewing Panel: Demo_screen

Panels | **Edit** | **Admin** | **Help** |

22

21.75   22.25

22.0

21.5
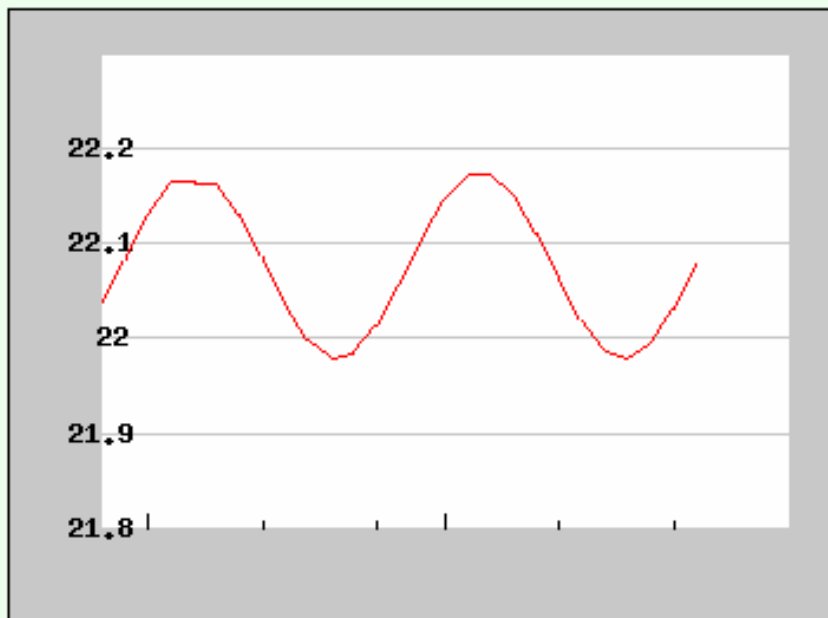
Room temperature

Set mean outside temperature

▲ ▲ ▲   ▲

2 2 . 1   Set

▼ ▼ ▼   ▼

2007

http://localhost/The_Canone/canone/canone.php?modifypanel=modify&panelid=panel000

Canone elettra

BBC NEWS | News Fr...   Google News   delo   CSL_Internal   CSL Wiki   OLGA   Glavna stran - Ljiki   MPS   gmail

Editing Panel: Demo_screen

Panels | Edit | Admin | Help

Username: admi   logout

save

22.2

22.1

22

21.9

21.8

22

21.75

22.25

22.0

21.5
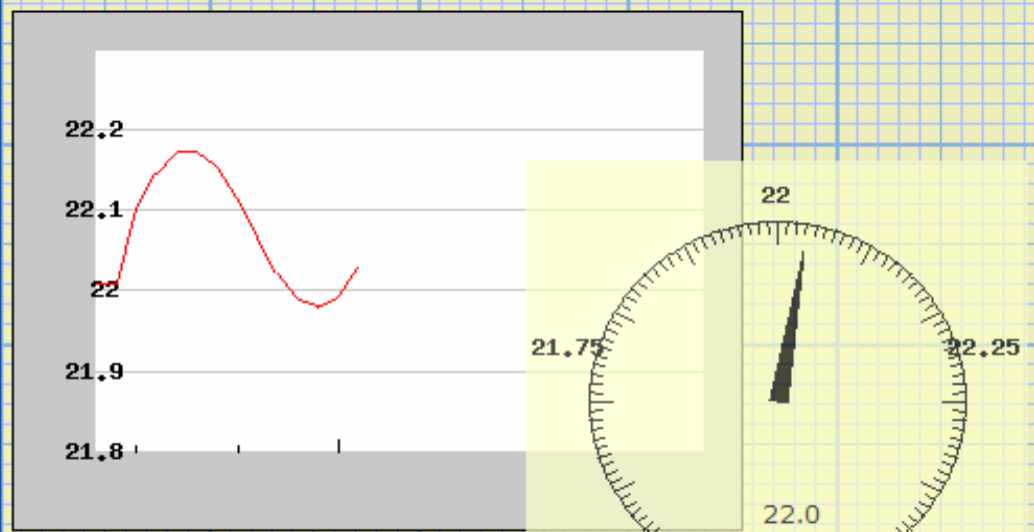
Set mean outside temperature

Room temperature

2 2 . 0   Set

name	Room2_T	?
attribute	mpelkoHost:T_room1	?
PosX	251	?
PosY	109	?
widget length	240	?
widget height	240	?
update period	4000	?
interpolation points	1	?
minimum	21.5	?
maximum	22.5	?
legend	Room temperature	?
outer margin	30	?
external margin	12	?
internal margin	6	?
small ticks	0.01	?
ticks and numbers	0.1	?

Find: Next   Previous   Highlight all