**RD51 Collaboration** 

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Intro

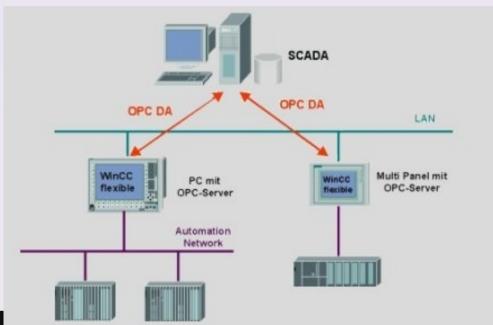
Main

Init

Config

Export

Prospects







Intro

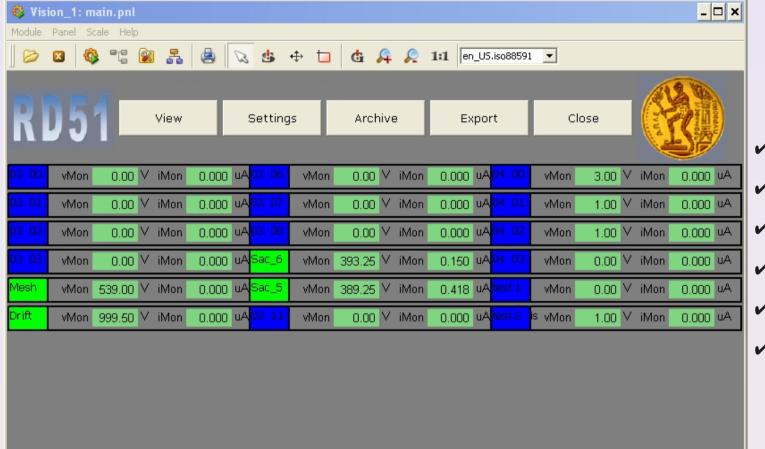
Main

Init

Config

Export

Prospects



#### **Main Window**

- ✓ Status of all
- ✓ vMon
- ✓ iMon
- Settings
- Initialization
- Export data



Intro

Main

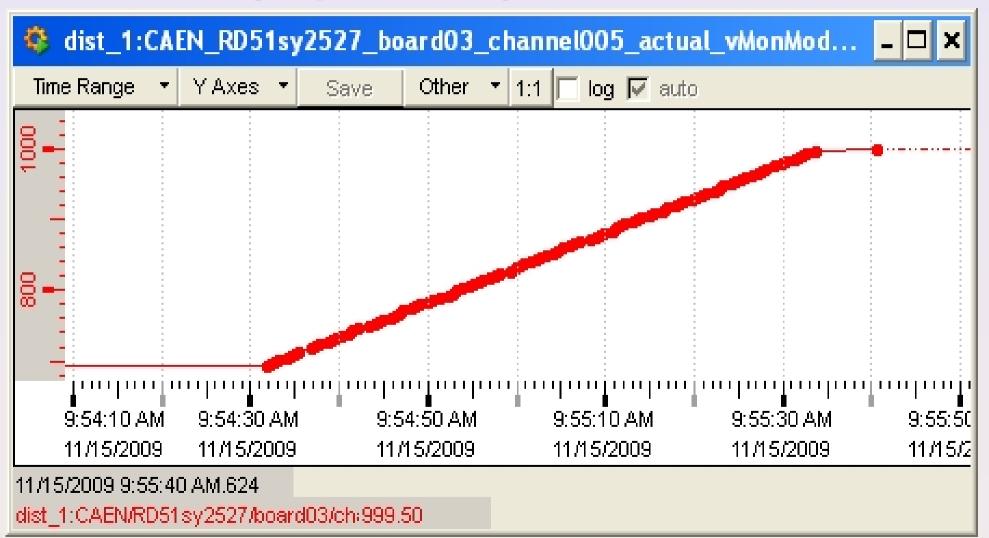
Init

Config

Export

Prospects

### **Direct single plot** with right-click on iMon or vMon.





Intro

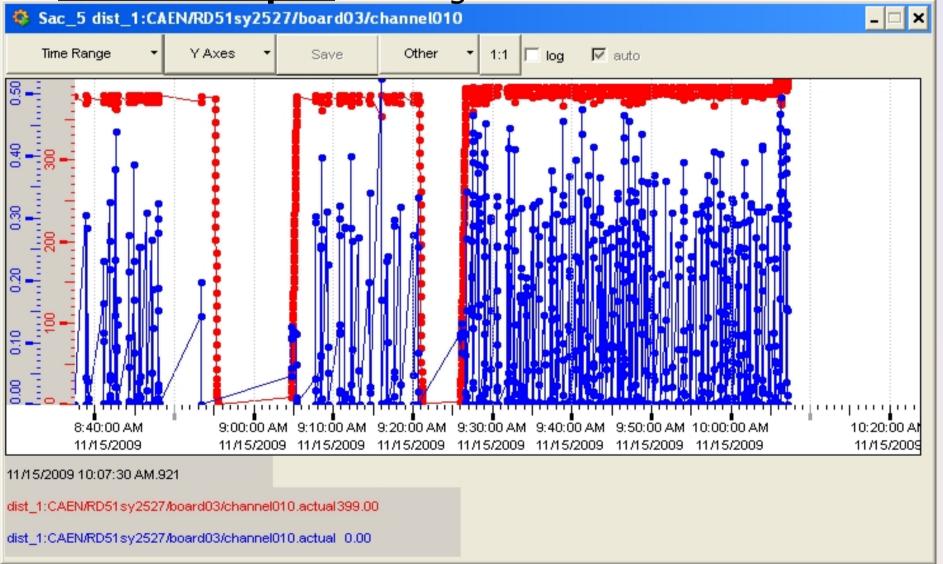
Main

Init 00

Config Export

**Prospects** 

**Direct dual plot** with right-click on status of channel.





Intro

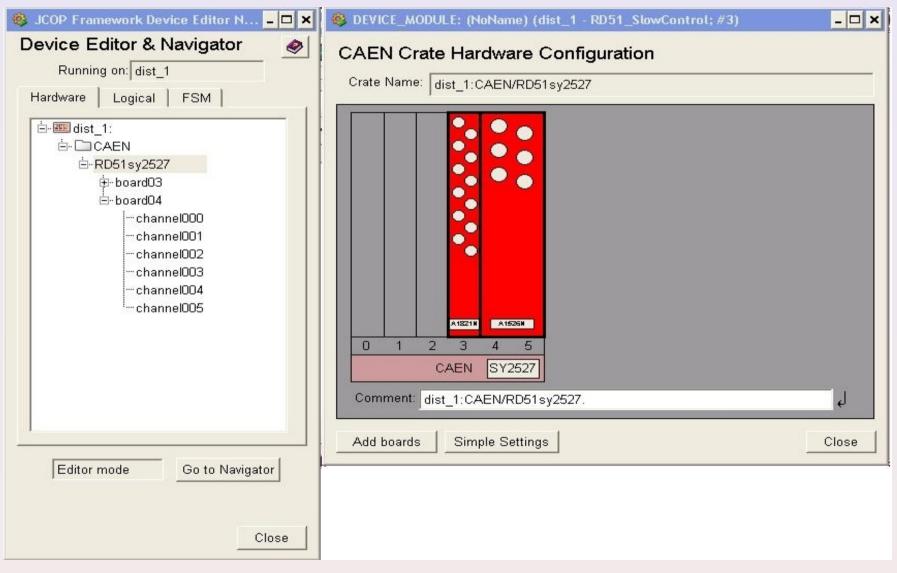
Main

Init • ° Config

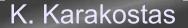
Export

Prospects

## **Device Editor & Navigator**.







Intro

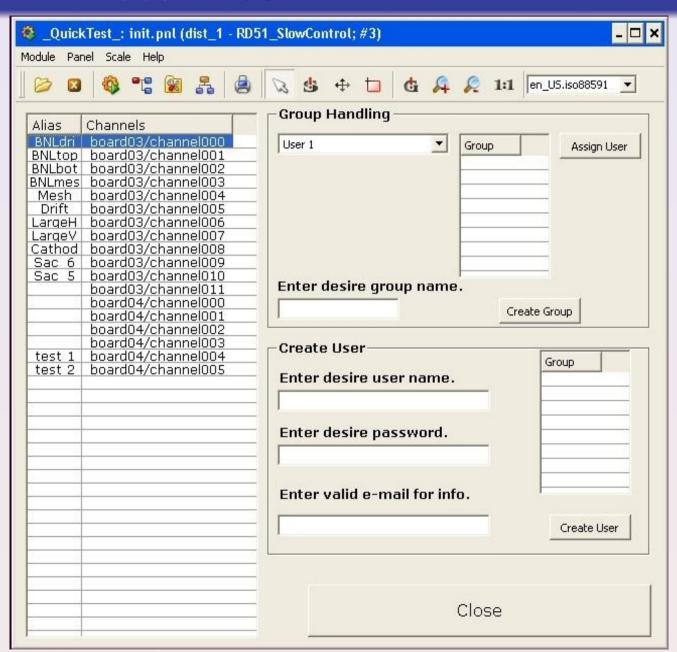
Main

Init

Config

Export

Prospects



#### **Init Window**

- Group creating & parameterizing.
- User creating.
- ✓ E-mail.



Intro

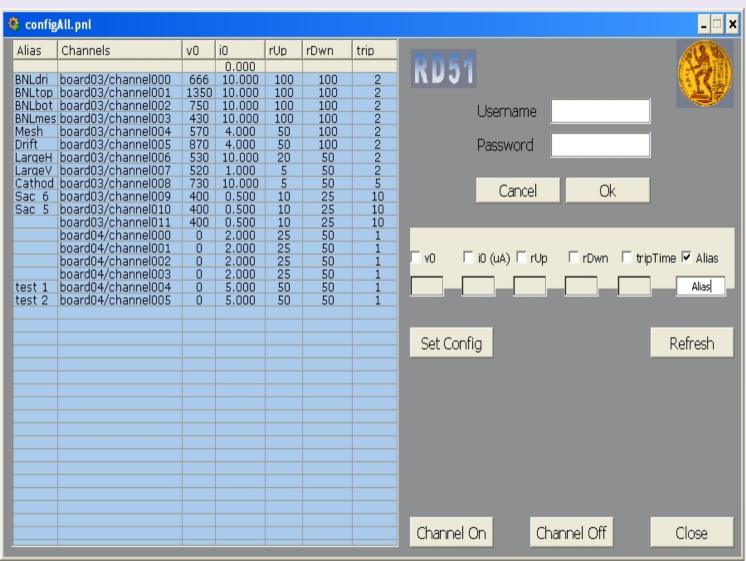
Main

Init

Config

Export

Prospects



## **Config Window**

- Multiple selecting.
- User name password required.
- ✓ v0, i0, rUp, rDwn, trip time, alias.
- ✓ On/Off.



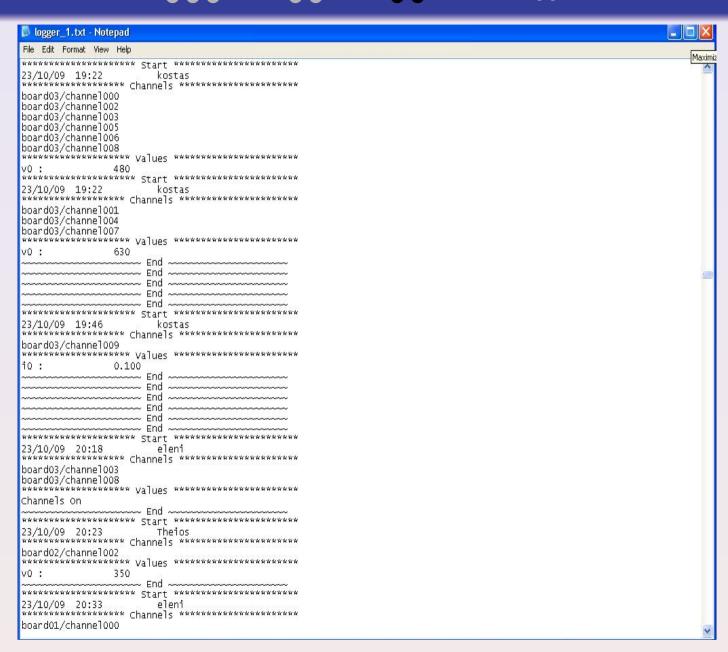
Intro Ma

Main Init

Config

Export

Prospects



### **Logbook**

- ✓ User
- Date-time stamp
- Channel(s)
- Configuration.



Intro

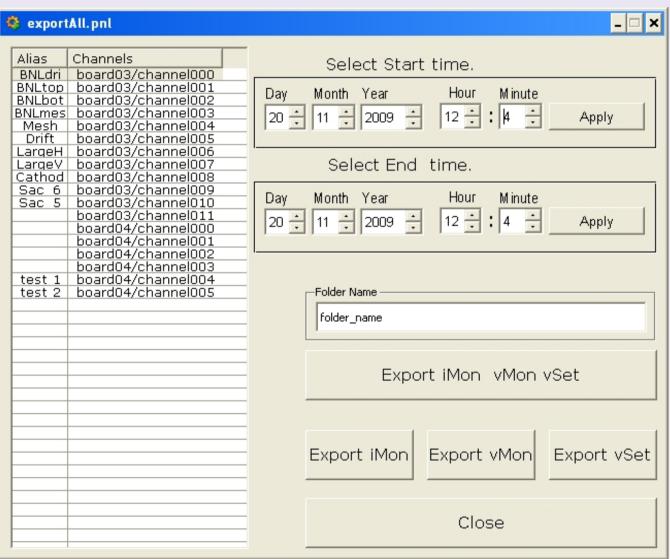
Main

Init

Config

Export

Prospects



### **Exporting Data**

- Multiple channel selection.
- Start/End time stamps.
- Custom folder name (also structure is available)
- Export iMon, vMon, vSet or all together.



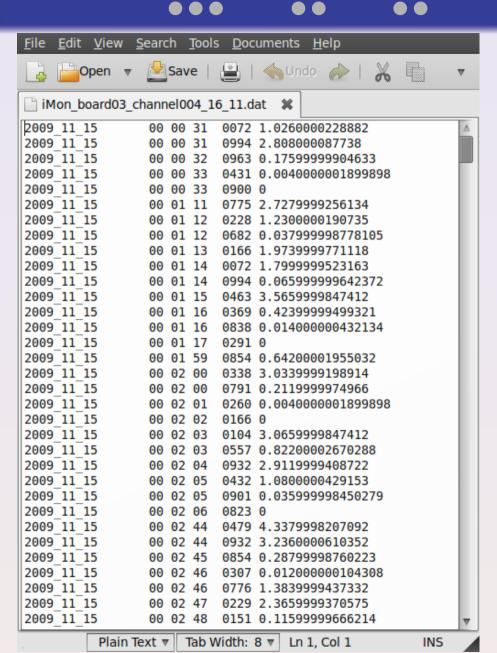
Intro Main

Init

Config

Export

Prospects



#### **Exported Data**

- Date separated with "\_".
- Time (with spaces) and milliseconds.
- Value.
- Information on the file name.



Intro Main Init Config Export Prospects

- The first version had already been used and tested during RD51 TB (Oct.) and MAMMA TB (Nov.) and now is improved according to the experience acquired from Tbs.
- A script is already in use for offline display (per channel, Imon & Vmon at a given period of time) at ROOT.
- ✓ The program can be easily migrate (List of fwTools, script for the init).
- Recipes of configuration.
- Custom trip handling (after n-trips in given time the channel should be considered tripped).
- Sound alarm for different states of the channel.
- Future plans are also to expand this tool for slow control system (i.e. temperature, external and internal pressure, gas monitor and control etc).

