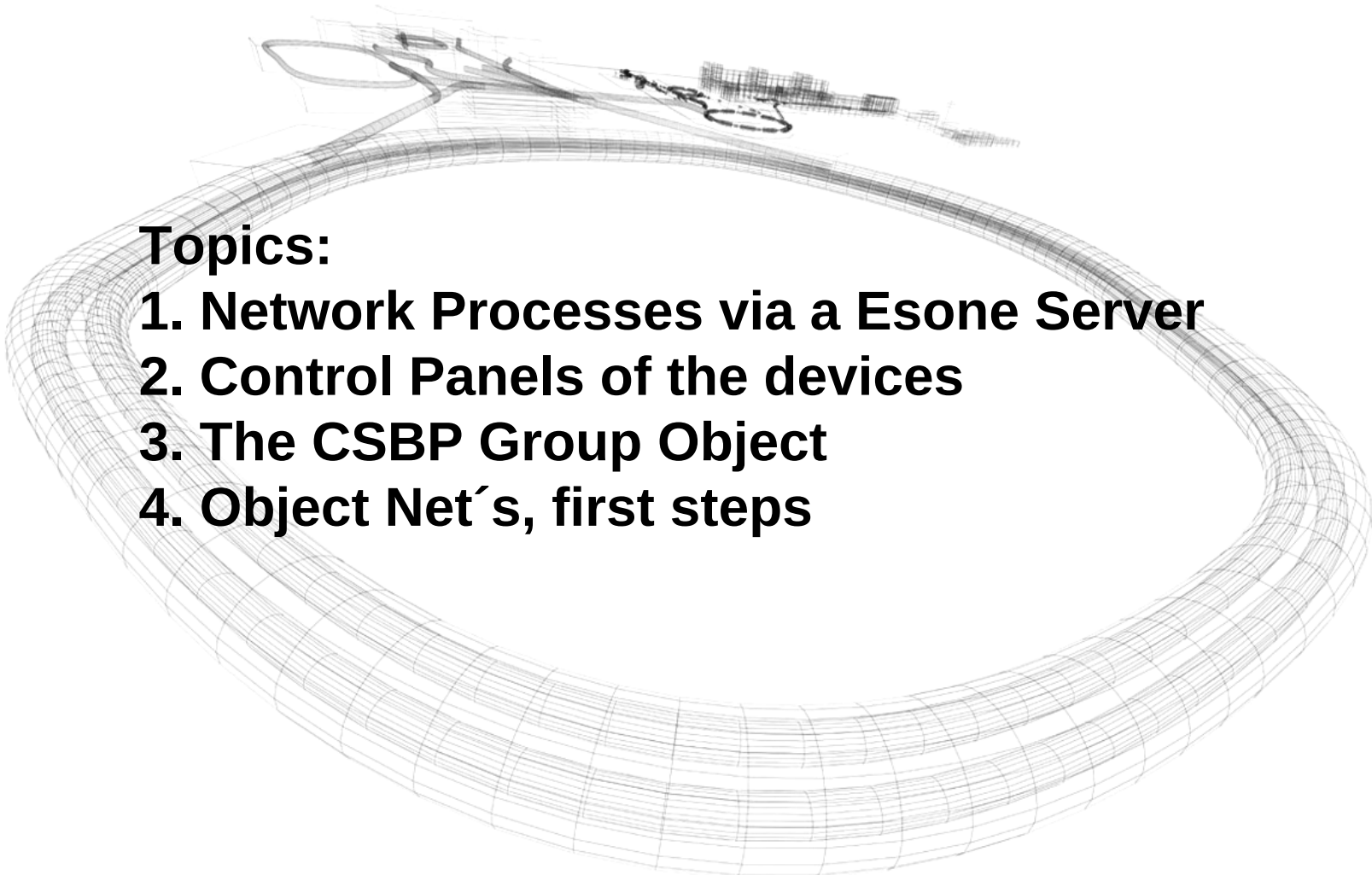


Topics:

1. Network Processes via a Esone Server

2. Control Panels of the devices

3. The CSBP Group Object

4. Object Net´s, first steps

Messhütte

Server

CS

-Interface Objekte

-Ausfall Kontrolle

OPC Server

Linux-Client

CS

-Benutzer GUI´s (Eingabepanels)

WinXP-Client

CS

- Benutzer GUI´s (Eingabepanels)

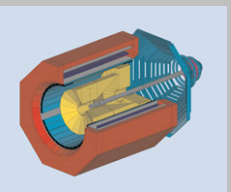
...

TCP/IP

CAVE

PT100 Temp.Sensoren

Beckhoff BC9000



Esone Server

CAMAC BUS

LeCroy – HV Devices

-1792 Channels

CAEN- Hoch Spannungs-versorgung

-18 Channels

Constant Fractions, ca. 150 Stck.

Ethernet – GBIP Controller

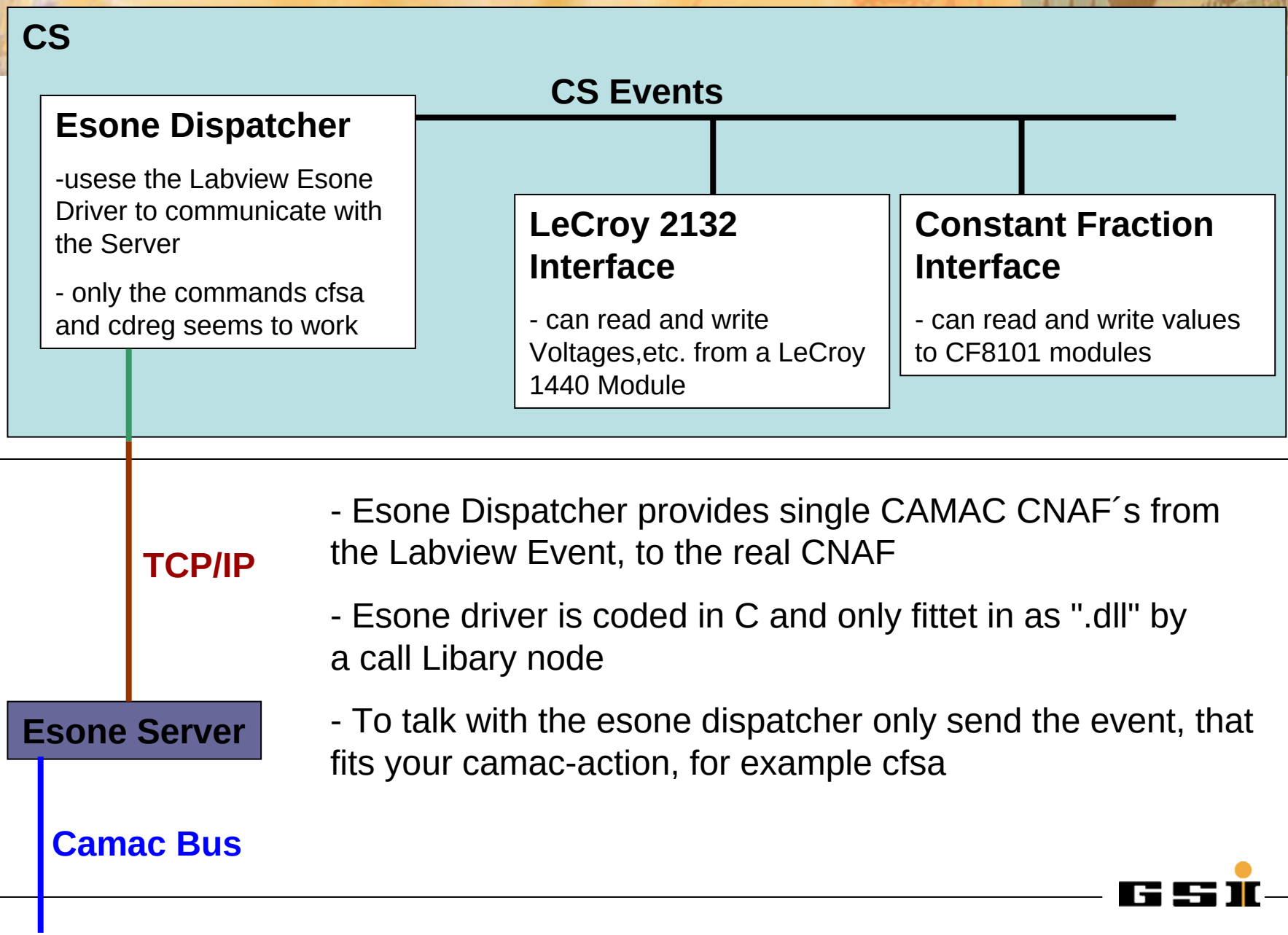
GPIB-Bus

Lambda, low-Voltage device

Lambda, low-Voltage device

...

kp1pc065 (FOPI CS Server)

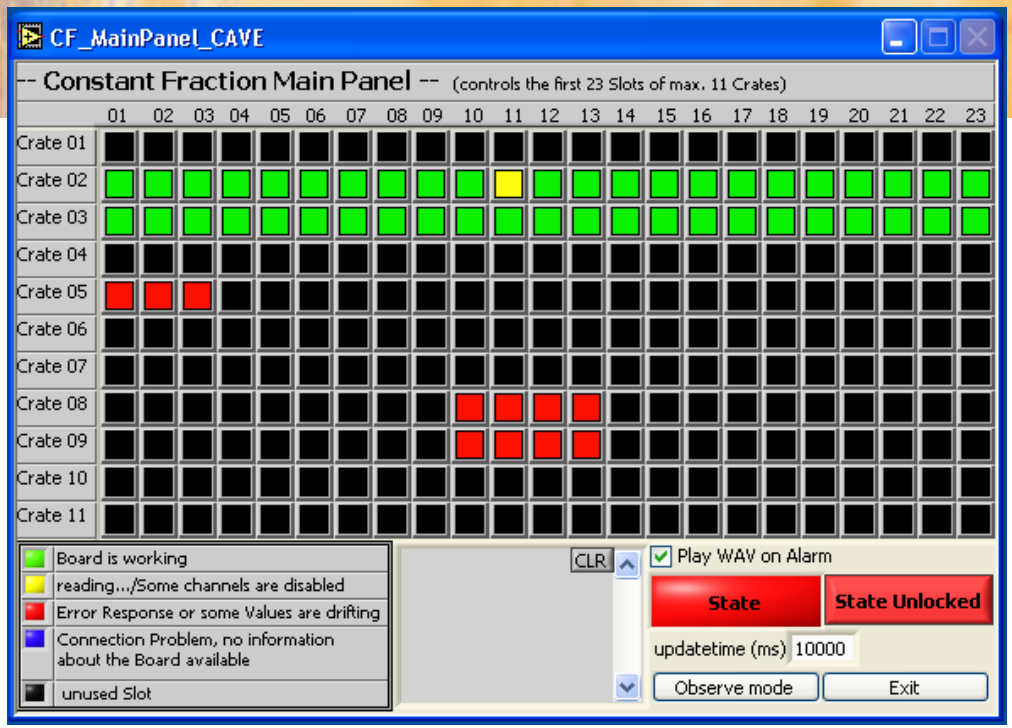


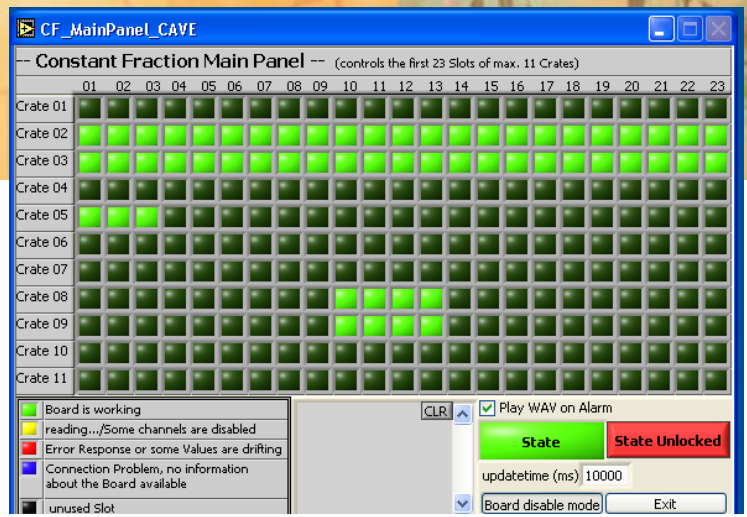
- Esone Dispatcher provides single CAMAC CNAF´s from the Labview Event, to the real CNAF

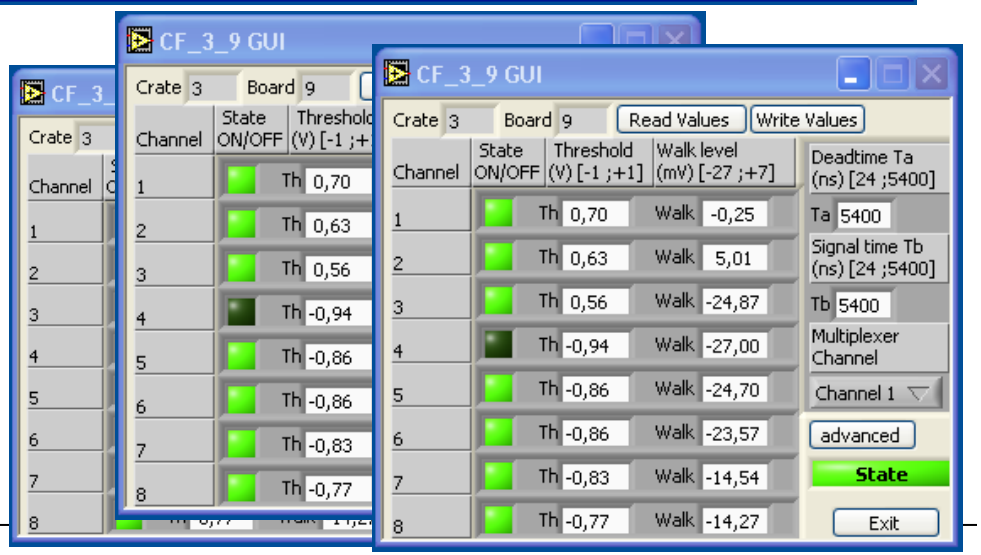
- Esone driver is coded in C and only fittet in as ".dll" by a call Libary node

- To talk with the esone dispatcher only send the event, that fits your camac-action, for example cfsa

Constant Fraction´s



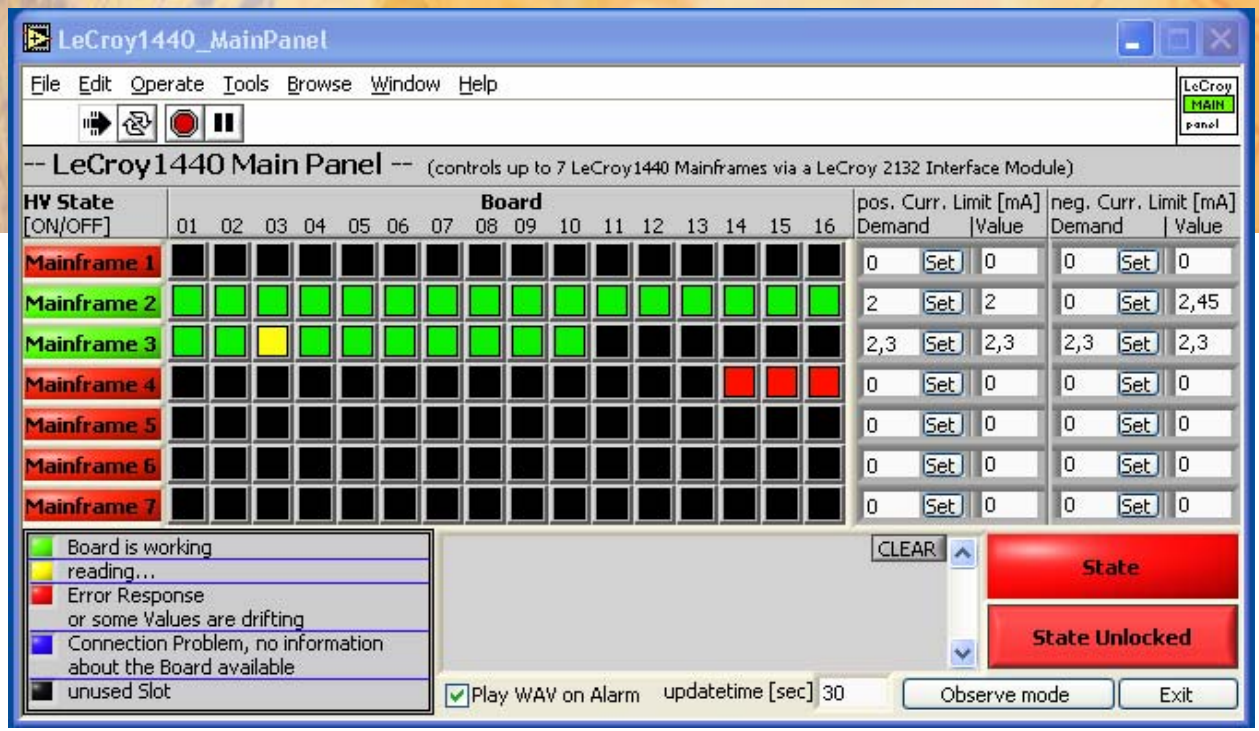


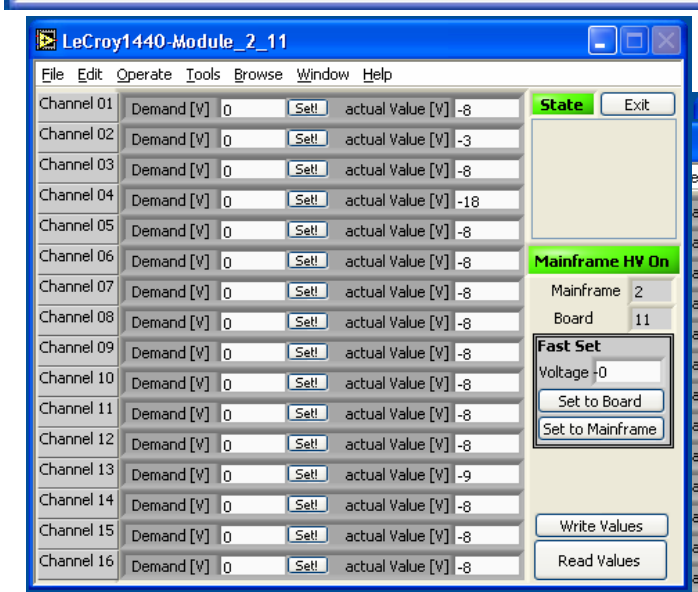


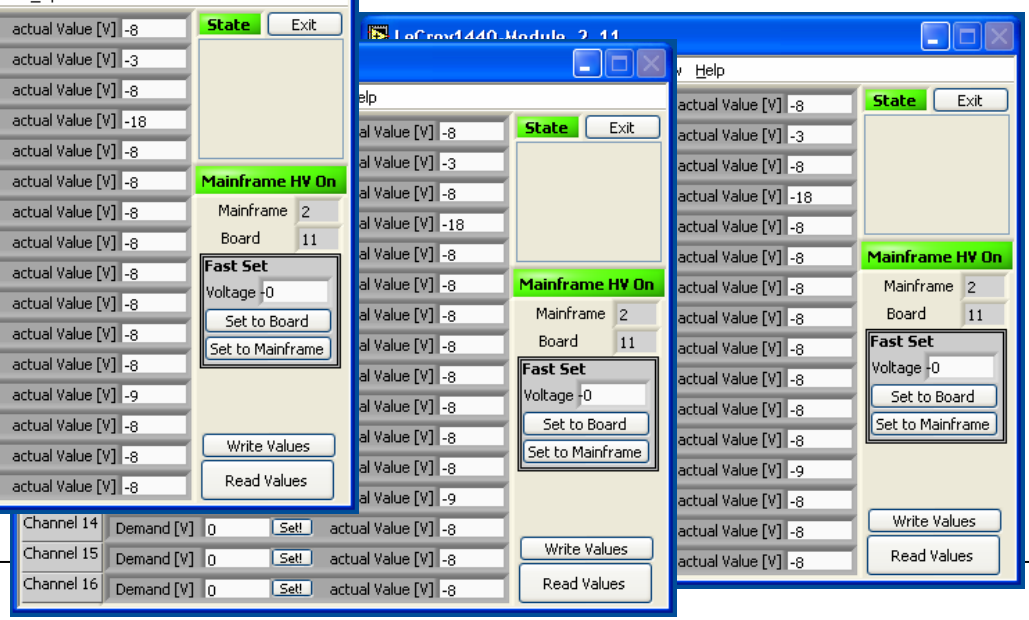
- Control of ca. 150 Constant Fraction "CF 8101" Discriminators
- control via Esone Server on a CAMAC Bus
- CNAF´s are the CAMAC Data Words (Crate, Board, Address, Function)
- Able to observe all values, and to recognize chanches
- Enable/Disable Boards to observe
- Able to play a alarm-wav file on alarm

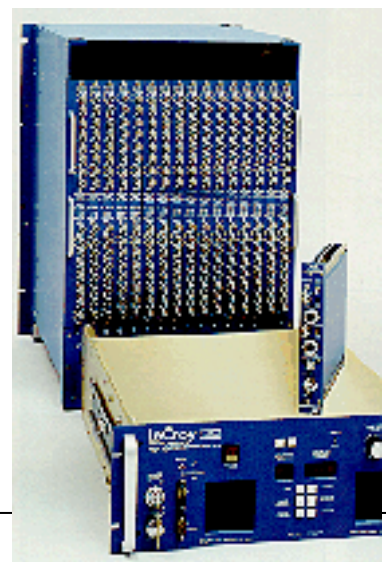
LeCroy HV

- Old Hardware (1985)
- control via Esone Server on a CAMAC Bus
- Very Slow reaction time
- Output is written in Output Buffer of the 2132 Interface
- Device Language is 16 Bit-Codet and Cryptic
- Contol of more than 1700 HV-Channels

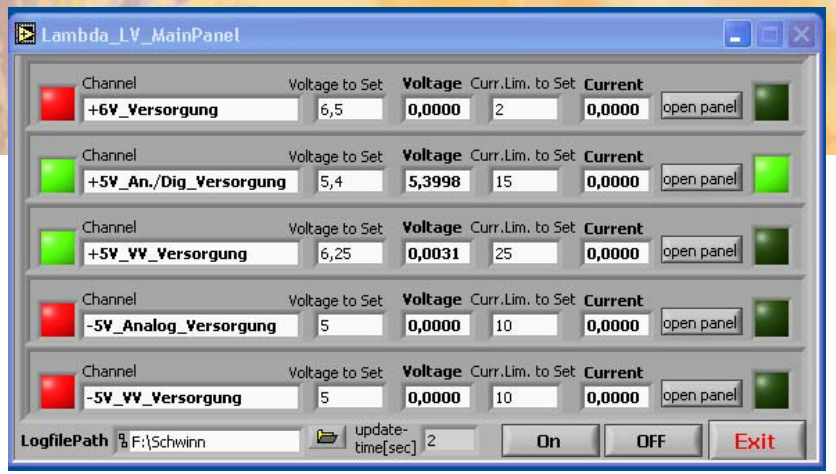


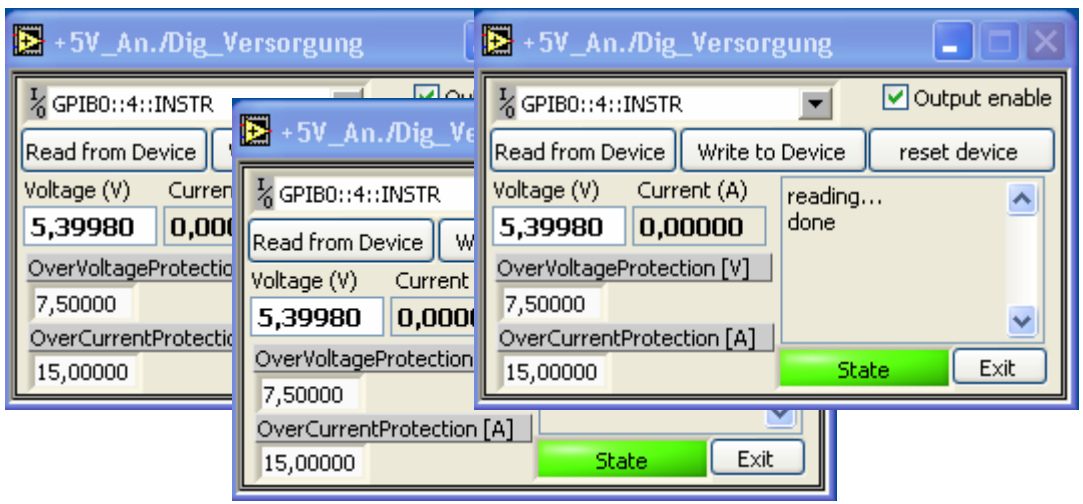






Low Voltage





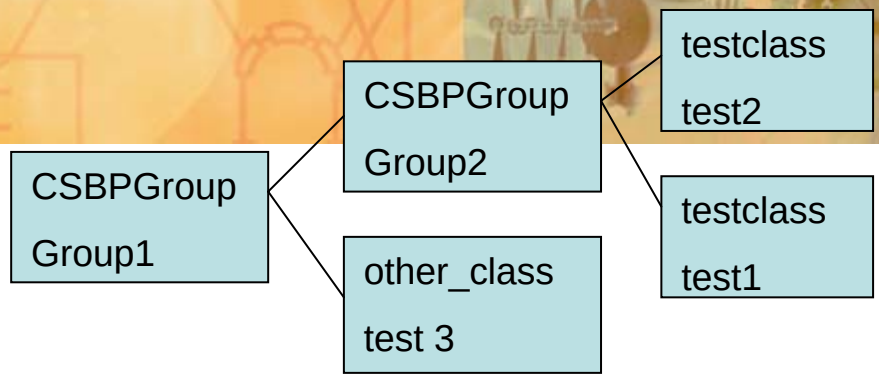
- Control of up to 5 Lambda-Genesys devices via GBIP Bus

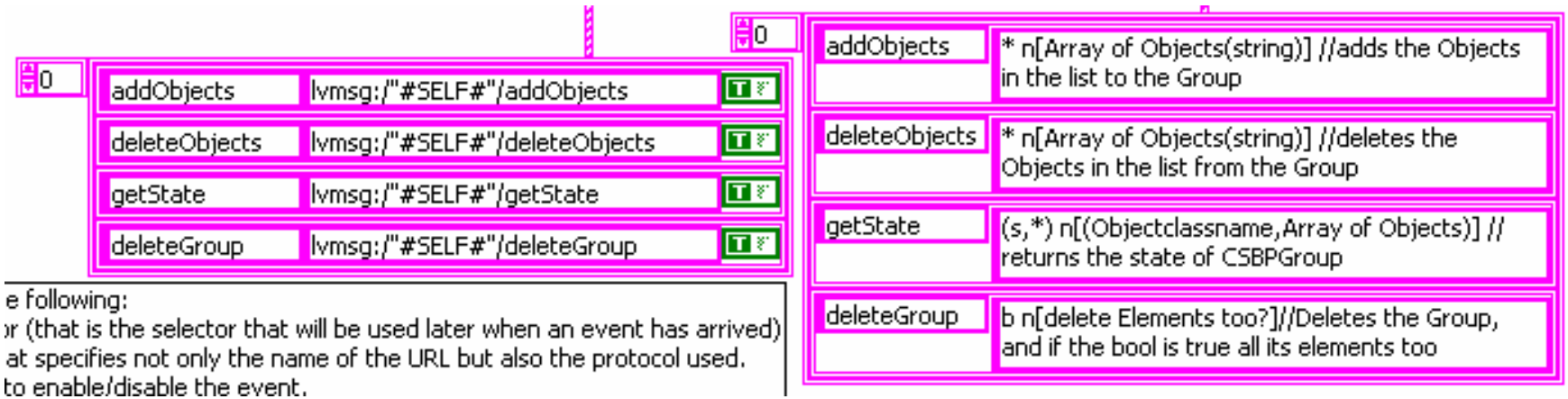
- Use of the device-specific drivers

- possibility to save all chanches, done to the channels into a logfile

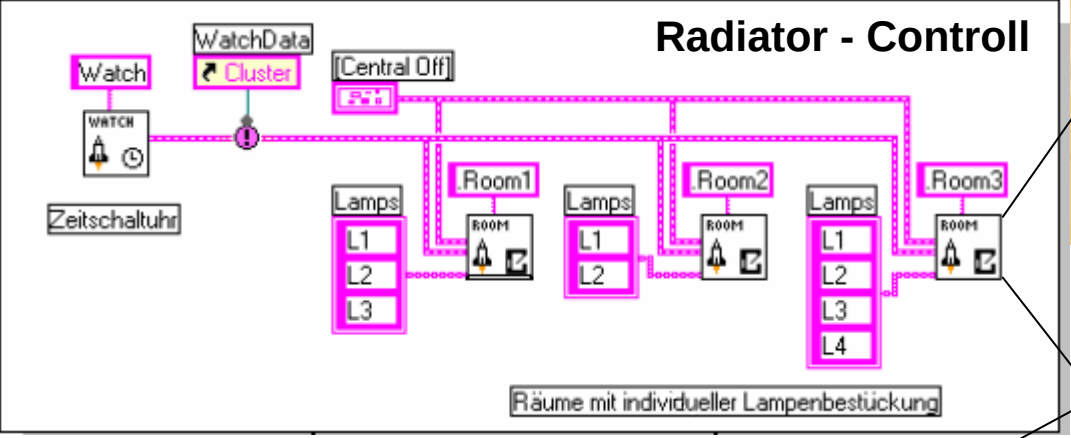
The CSBP Group Object

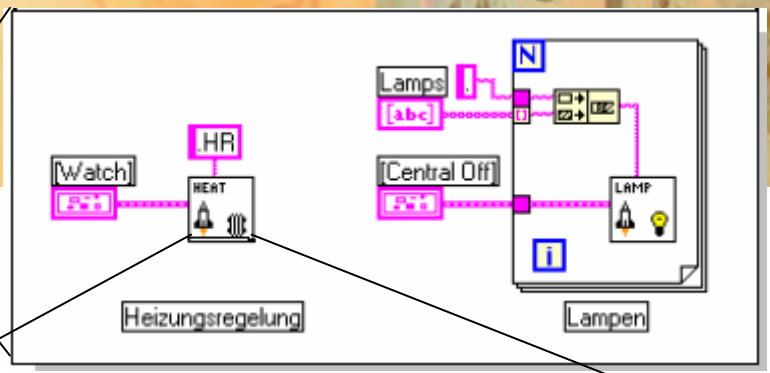
- is for grouping many BaseProcess-Classes
- to make talking to them more easy
- to give some structure to your Project
- and to get rid of the loadProcess procedure



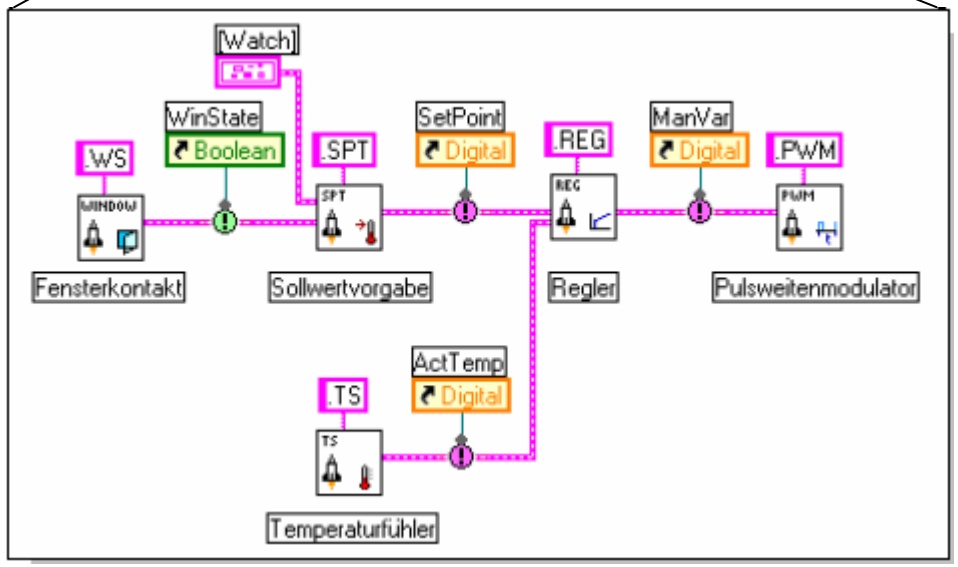


- "get State" gets also the state of eventually sub Groups, needs no argument
- if you send a event to the GroupObject, it will provide it to all its members.
- The data array in the answer cluster has the laengt of the number of responses, made by the member objects
- you can also create group elements on other nodenames, if the CS there knows the class
- if you set the bool in "deleteGroup" the whole Group-tree will also get deleted





Object Net, made with ObjectView



Advantages of Object Nets

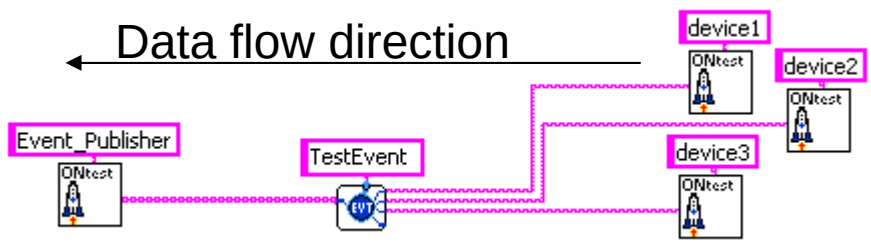
- the whole Project on one Page

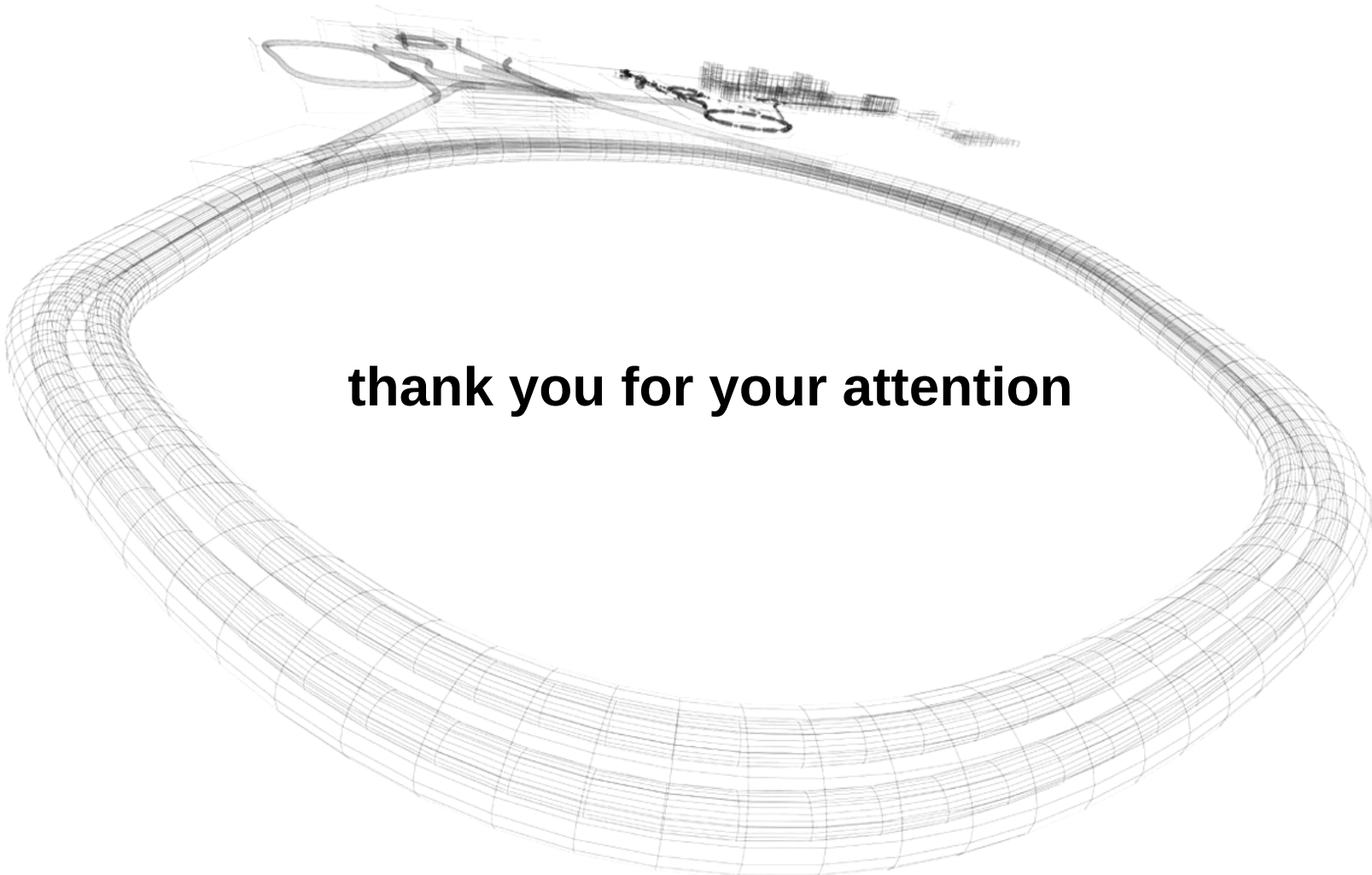
- a startup procedure is no longer nesesarry

- You can "see" which Objects are talking together

- also "LoadProcess" on other Machnines could be implemented, to produce a distributed Object Network

Implementation in the CS ?





thank you for your attention