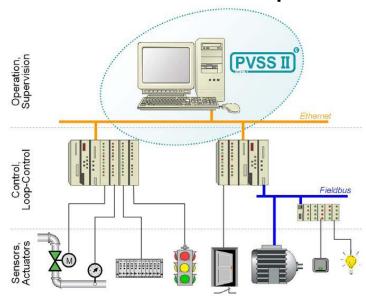
# **PVSS Navigator**



#### What is PVSS?

- "Prozess Visualisierung und Steuerungs System" (process visualization and control system)
- SCADA (Supervisory Control and Data Acquistition)
- Control and Visualization of process data

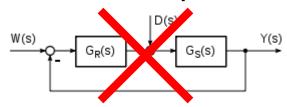


#### What is PVSS **NOT** for

NOT for realtime control



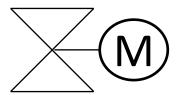
NOT for closed loop control



NOT for high bandwith data acquistition



## **PVSS Data Point Concept**

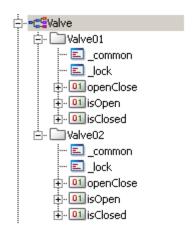


- one input: openClose
- two outputs: isOpen, isClosed

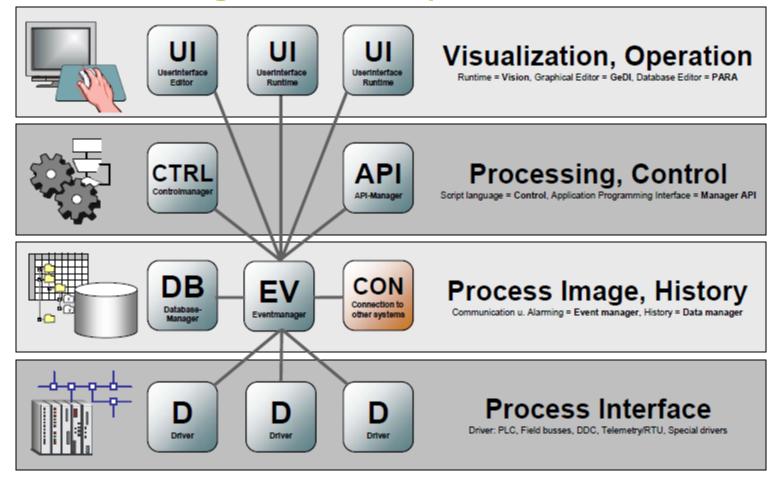
#### Create the Type:



#### Create instances:



# **PVSS Manager Concept**



#### Managing the Panels

#### **Questions:**

- How to find a particular panel?
- How to open a particular panel?
- Who takes care of the screen configuration?
- Who takes care of panel access rights?



## The Navigator



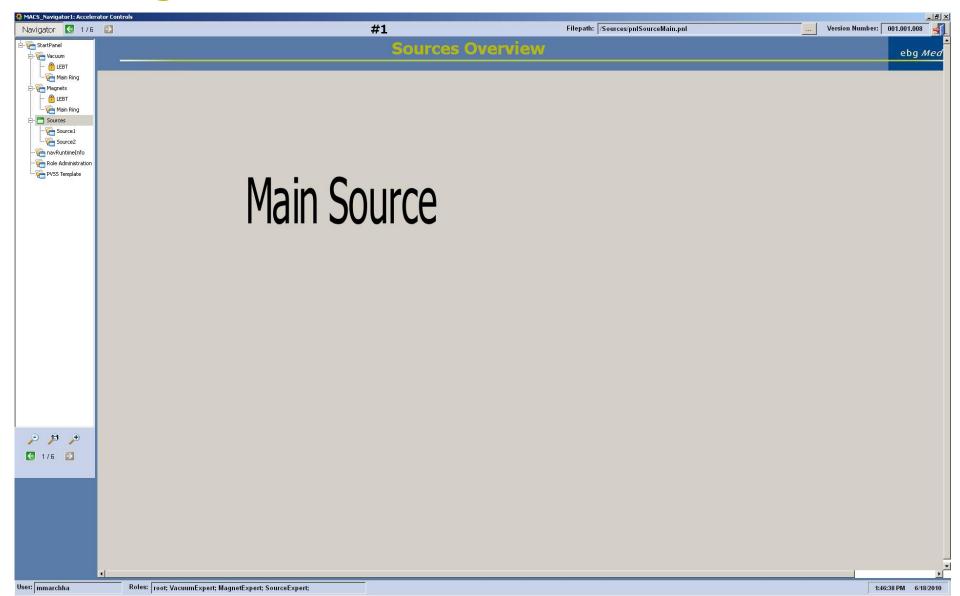


### What is/does the Navigator

Single access point for all control panels

- Holds all information about available panels
- Let the user browse through the panels in a tree structured view
- Handles the user login
- Handles the permissions (users, roles, domains)
- Takes care on the screen configuration (working place, number of screens, resolution)

# Navigator

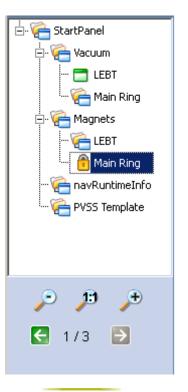


### Tree Configuration

- Each node has a assigned panel
- Multible nodes can reffere to the same panel
- Organizing the tree according to the current user permissions
- Holds the panel information

   (a panel may be opened at the same time only once)
- All information about the tree and the panels is stored in a Data Point





#### **Access Control**

- Includes Access Control Component of JCOP
- Concept of Users, Roles and Domains
- Domain permissions: read, write and execute
- Required permission can be defined per panel and per element in the panel (e.g. button)



## User login

Over the actual OS user



### Screen Configuration

- Definable per user and per working place(planned)
- Each Screen has his own navigator panel





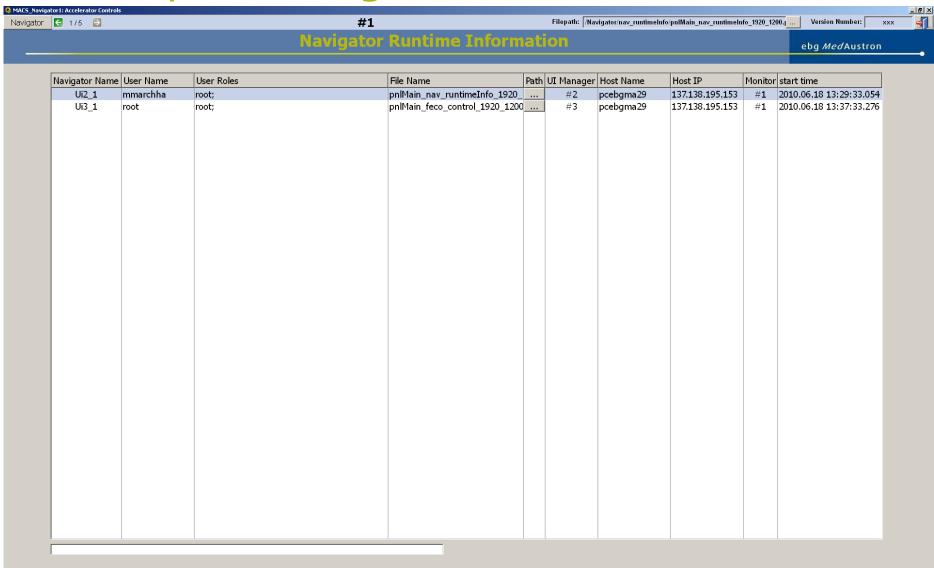
- 3 supported resolutions
  - 1280x1024
  - 1920x1200
  - 2560x1600

1:39:24 PM 6/18/2010

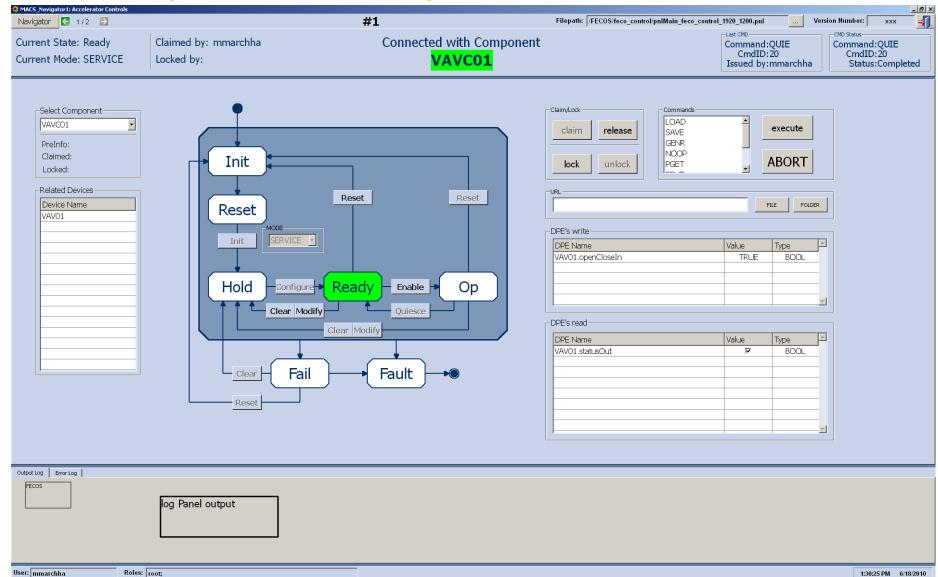
# **Example: Navigator Information**

User: mmarchha

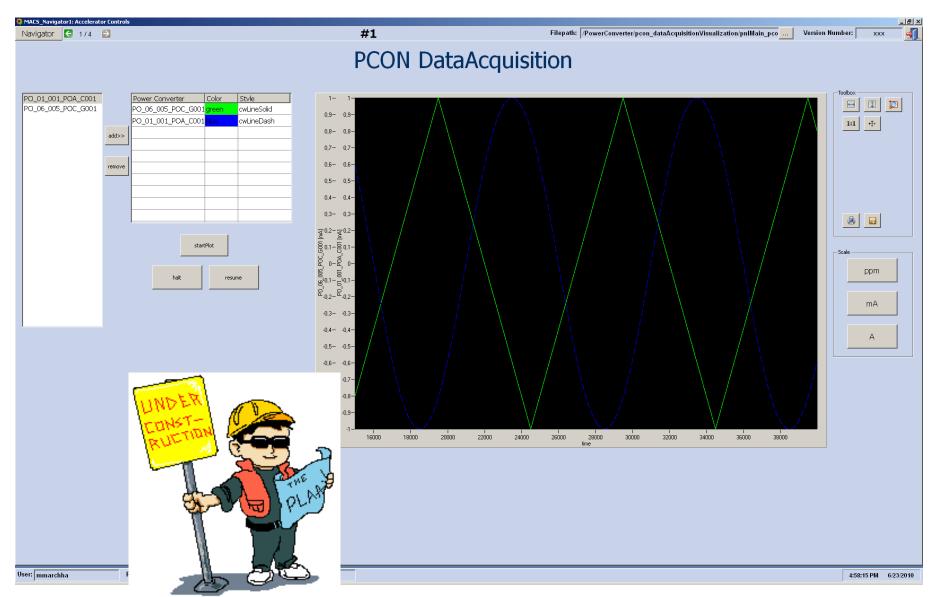
Roles: root;



## Example: FECOS panel



## Example: PCON DataAcquisition



#### Outlook

- Next Panels to develop:
  - Power Converter Data Acquisition Panel (ongoing)
  - ProShell Control Panel
- Additional features:
  - Screen configuration per working place
  - Dynamic screen configuration