FROM RESEARCH TO INDUSTRY

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GENERATE OPI FROM AUTOCAD (DFX)

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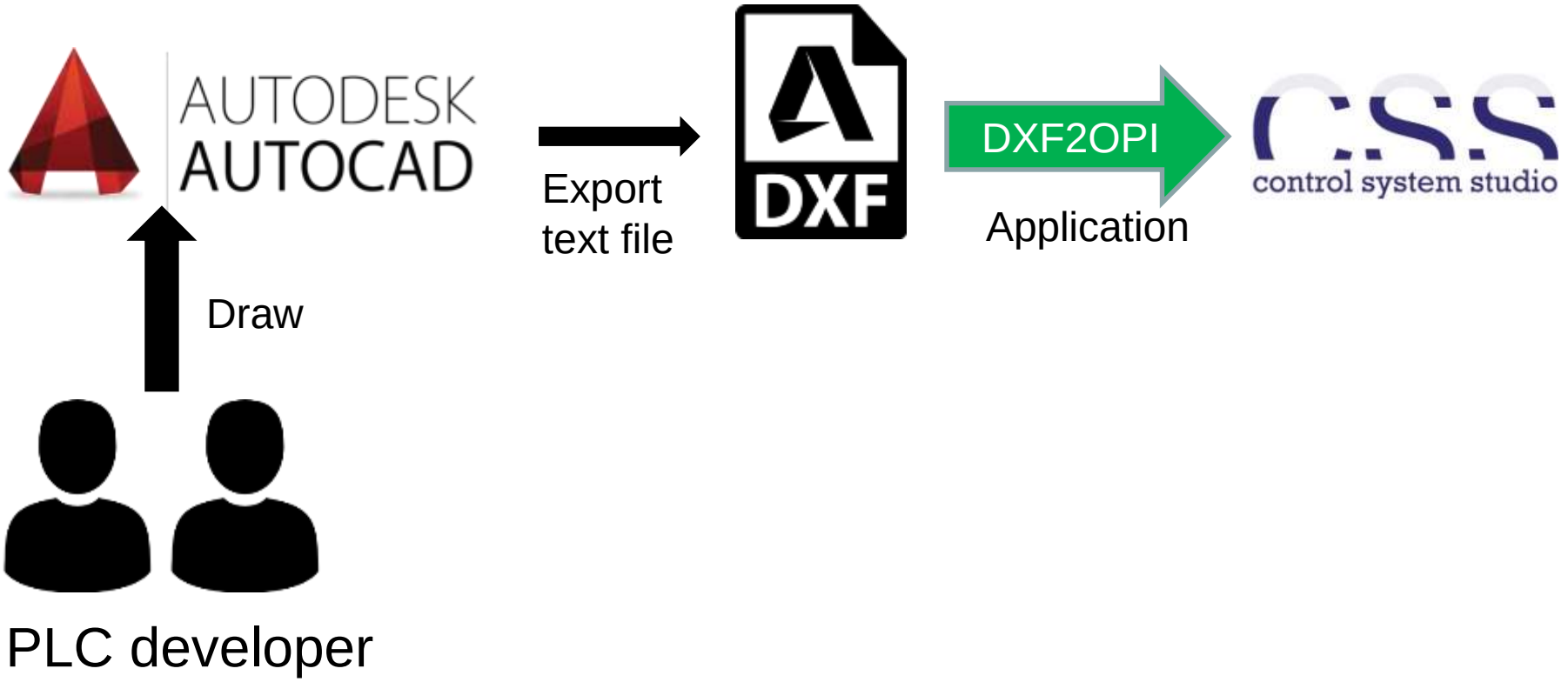
CONTEXT

- Laboratory context
  - Cryogenic installation: complex drawings
  - AutoCAD precis drawings
  - Working on EPICS for more projects
  - Part of team doesn’t know CSS

PRINCIPLE


AUTODESK
AUTOCAD
Export
text file
DXF
DXF2OPI
Application
control system studio
Draw
PLC developer

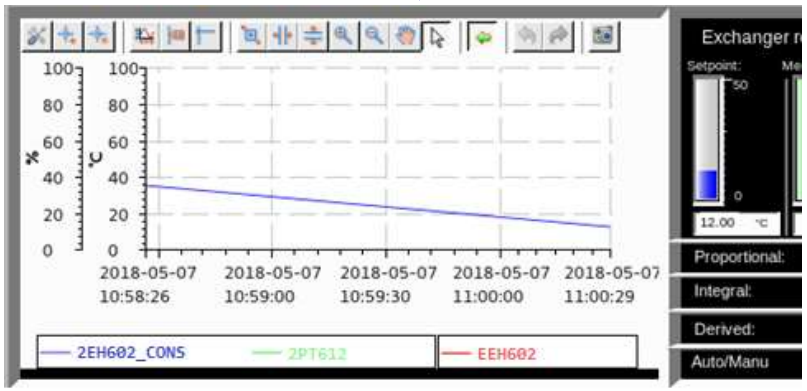
PRINCIPLE

- Create animation
  - Custom AutoCAD block

- 2 types of drawings
  - Widget association
  - No widget association

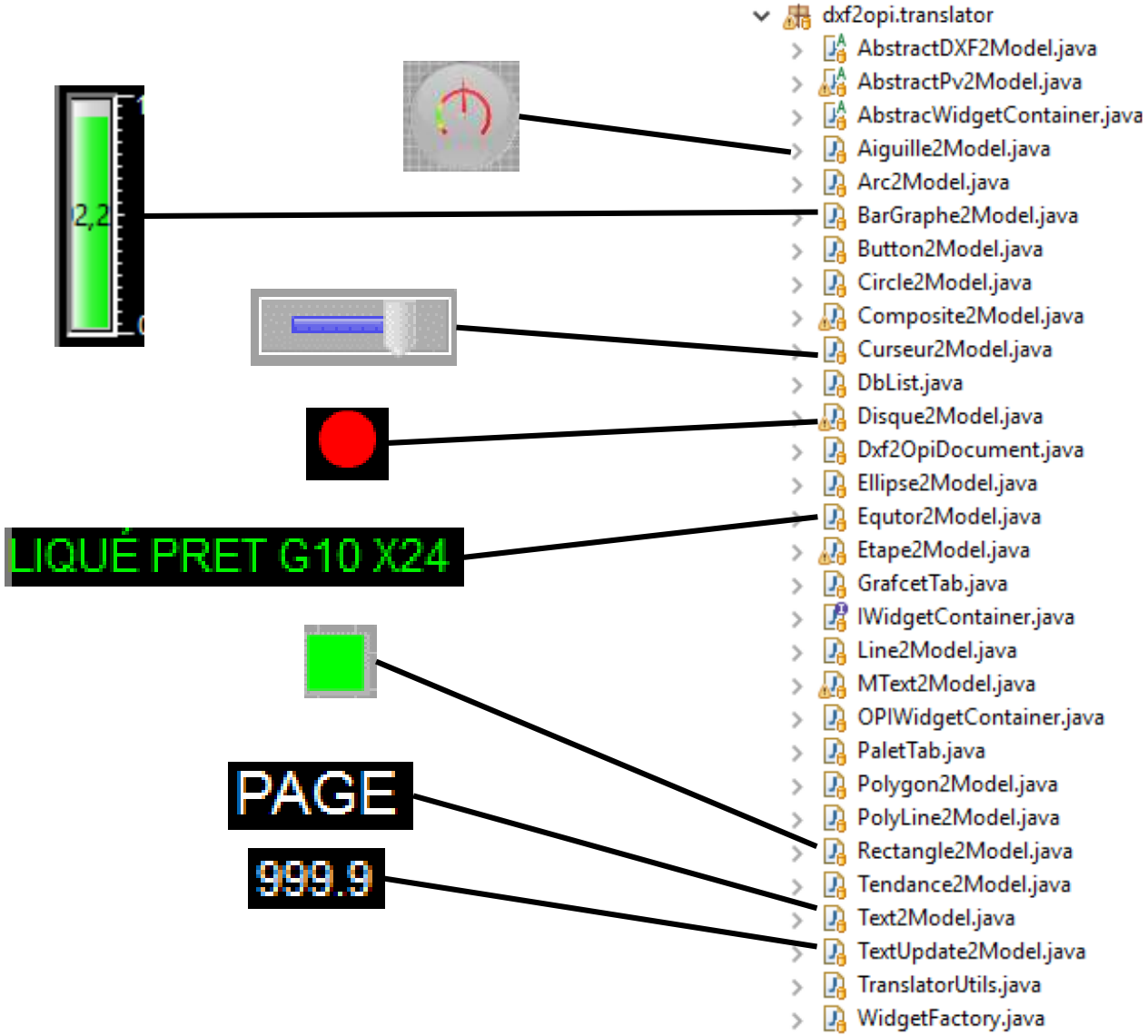
WIDGET ASSOCIATION BLOCK

- Graph block graph called TENDANCE



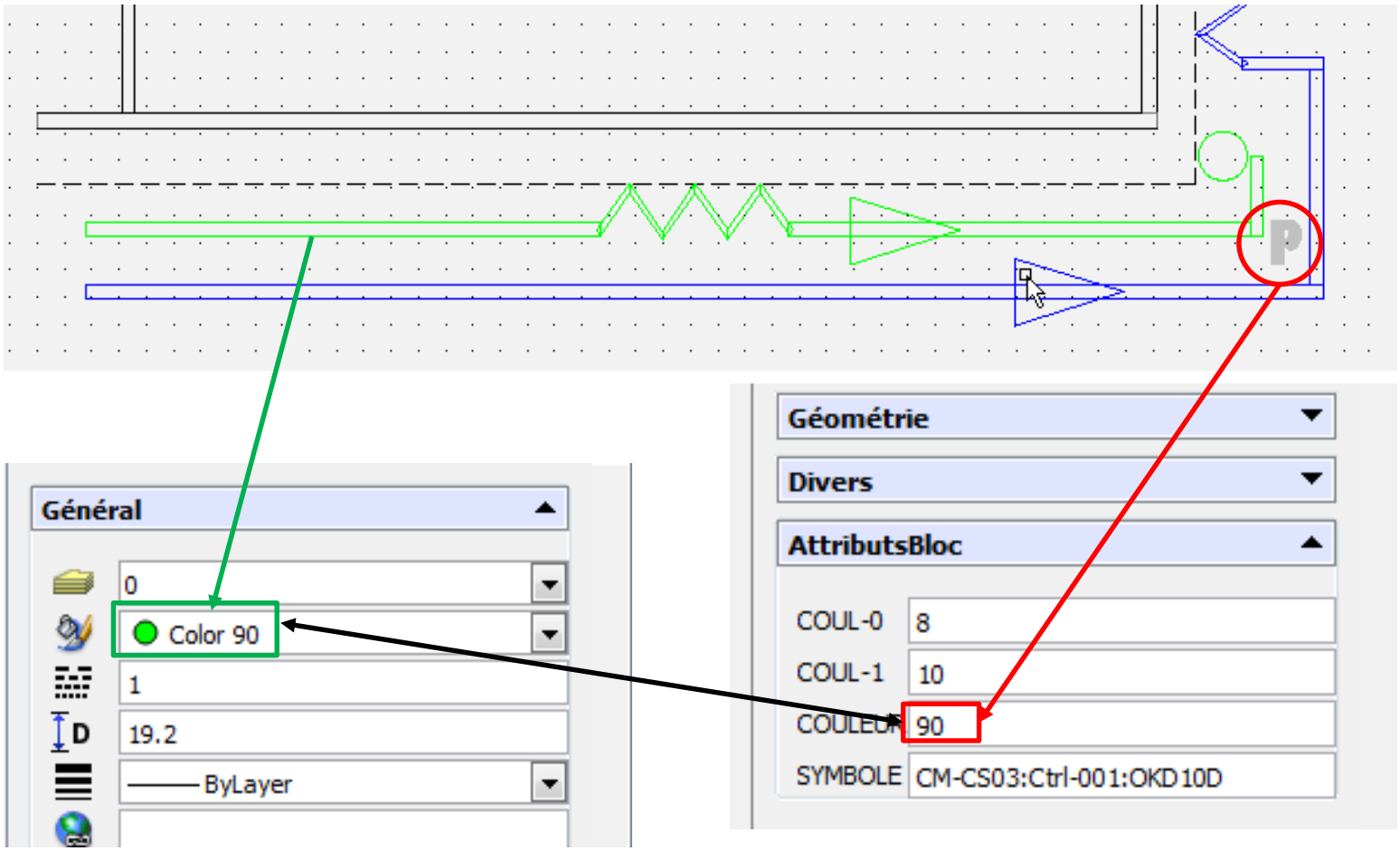
AttributsBloc	
COUL-1	12
COUL-2	9
COUL-3	10
LOG-1	0
LOG-2	0
LOG-3	0
MAXI-1	5.0
MAXI-2	5.0
MAXI-3	100.0
MINI-1	0
MINI-2	0
MINI-3	0
PERIODE	5
SYMBOLE-1	2EH602_CONS
SYMBOLE-2	2PT612
SYMBOLE-3	2EH602
UNITE-1	Bars
UNITE-2	Bars
UNITE-3	%

WIDGET ASSOCIATION BLOCK



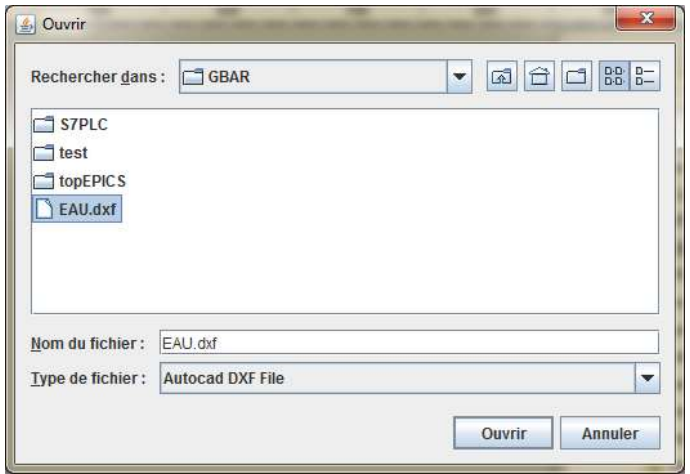
NON WIDGET DRAWING

- How to associate any drawing with a PV?

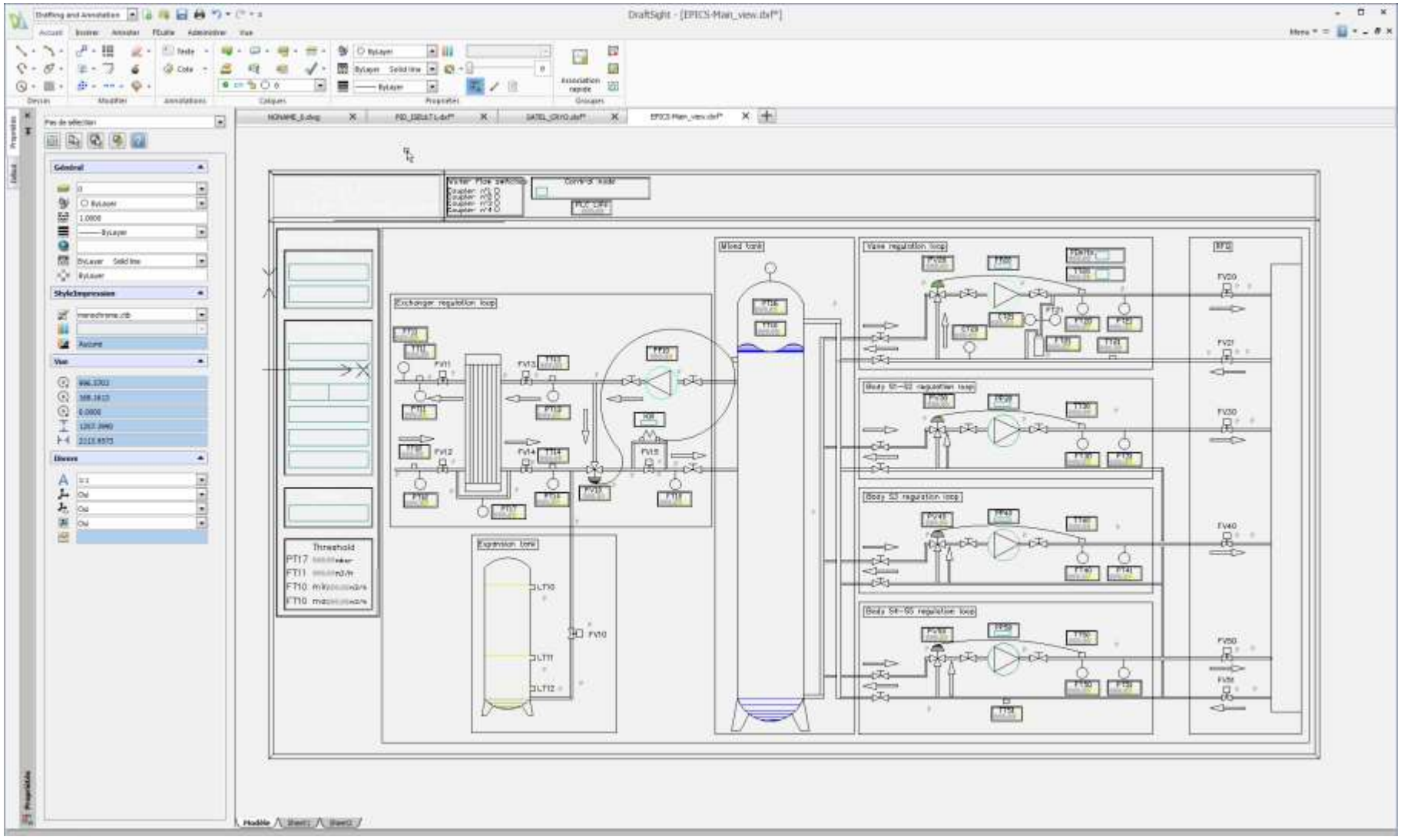


MISC

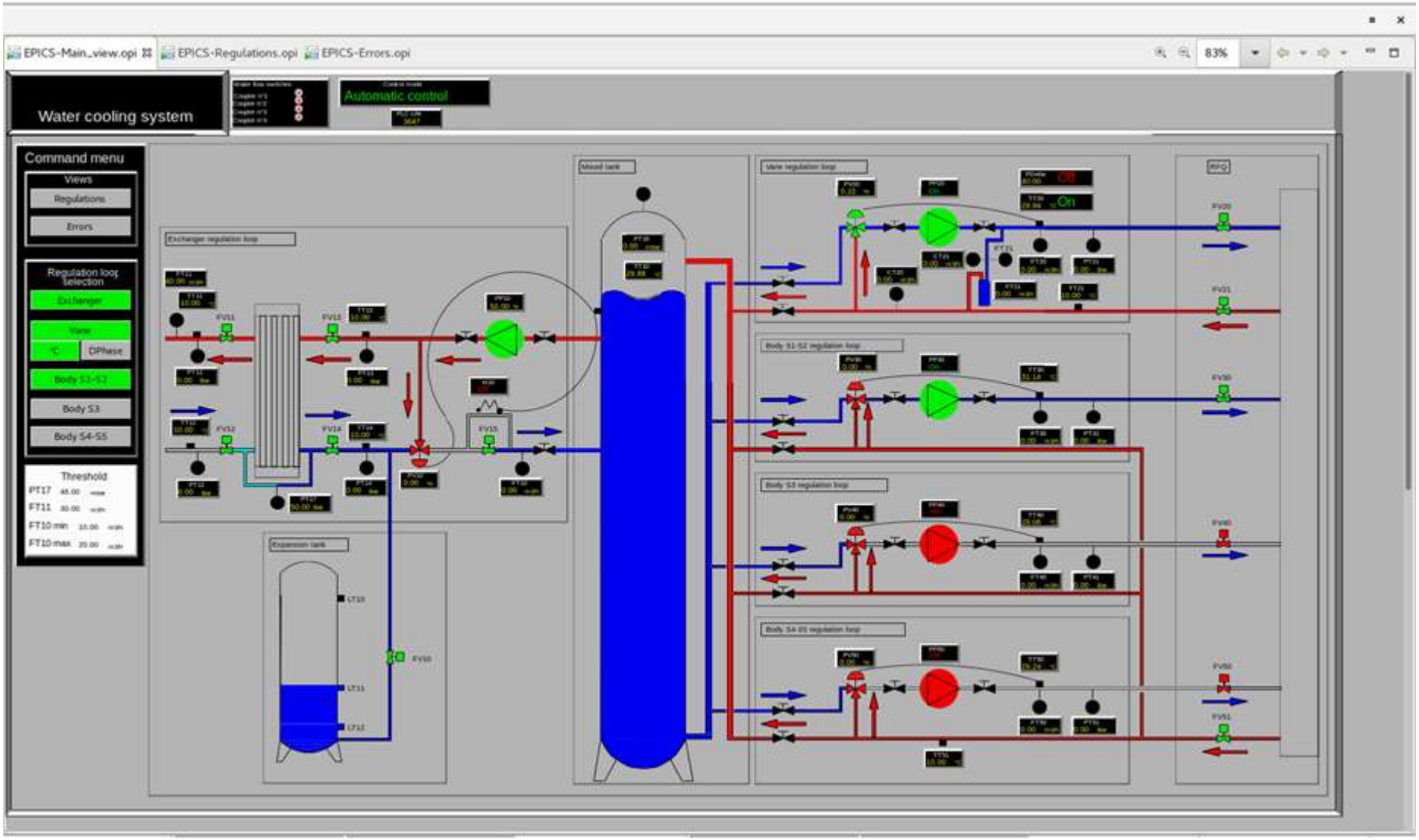
- AutoCAD to OPI
  - Block position is relative to the insert entity => recalculation of the position of the widget
  - Eclipse plugin



VIEW EXAMPLE



VIEW EXAMPLE



Thanks for your attention