ebg *Med* Austron





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... on behalf of CSL MA team

 $\frac{1}{2} \frac{1}{2} \frac{1}$ the best people make cosylab



WHAT is FECOS?

Google says...



well, MA FECOS is something else



WHAT is FECOS?

Front End Control System

purpose built NI LabView Real-Time framework



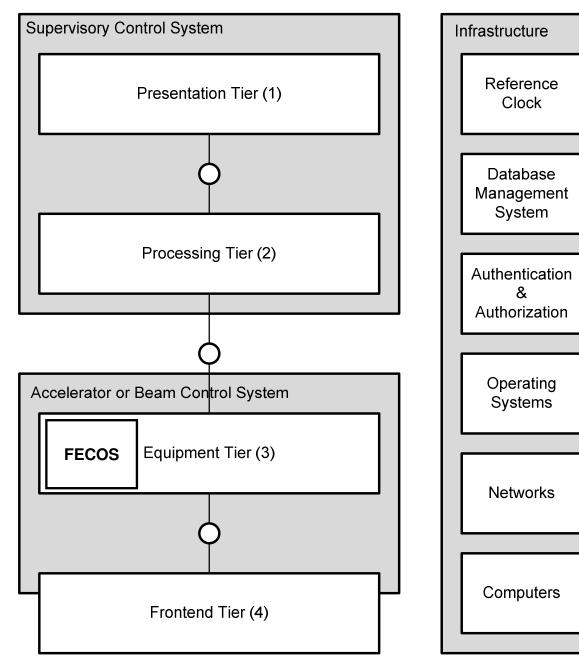


Graphical Development, Real-Time Results





WHERE is FECOS?

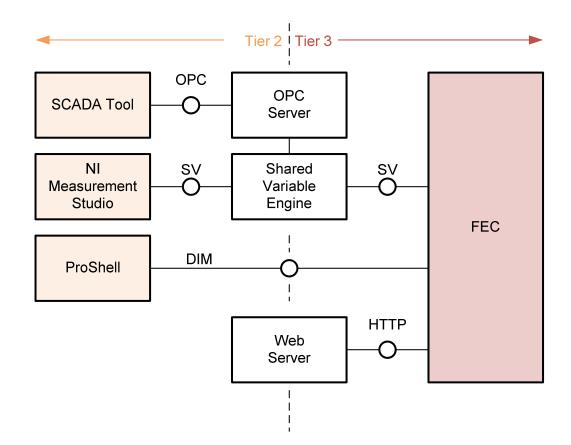




WHY FECOS? (1/3)

FECOS provides uniform communication:

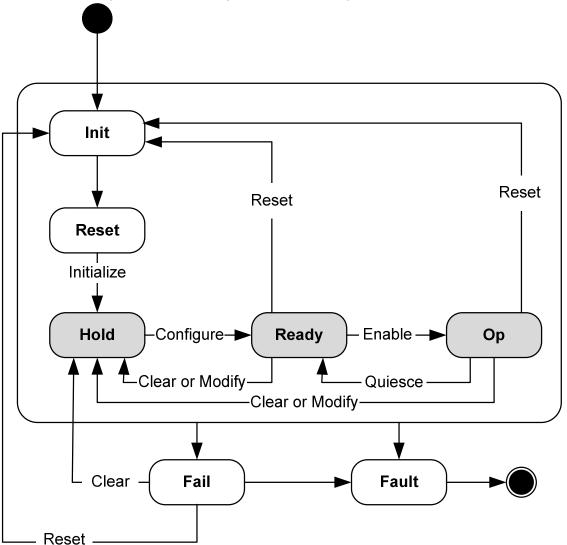
- communication protocol is completely hidden from the programmer
- autonomously selected by the framework





WHY FECOS? (2/3)

- FECOS provides uniform operation:
 - each component implements general state machine



WHY FECOS? (3/3)

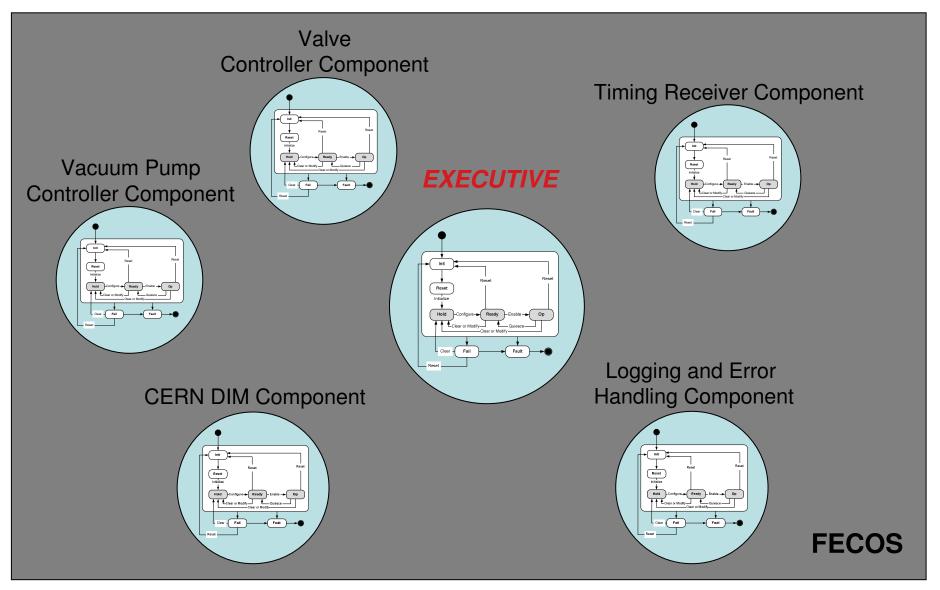
FECOS provides standard "services" :

- logging and error reporting
 - local to file and remote (via DIM)
- timing system support
- standard configuration services
 - local file, HTTP
- watchdog and host health-status monitoring
- □ ... etc. ...

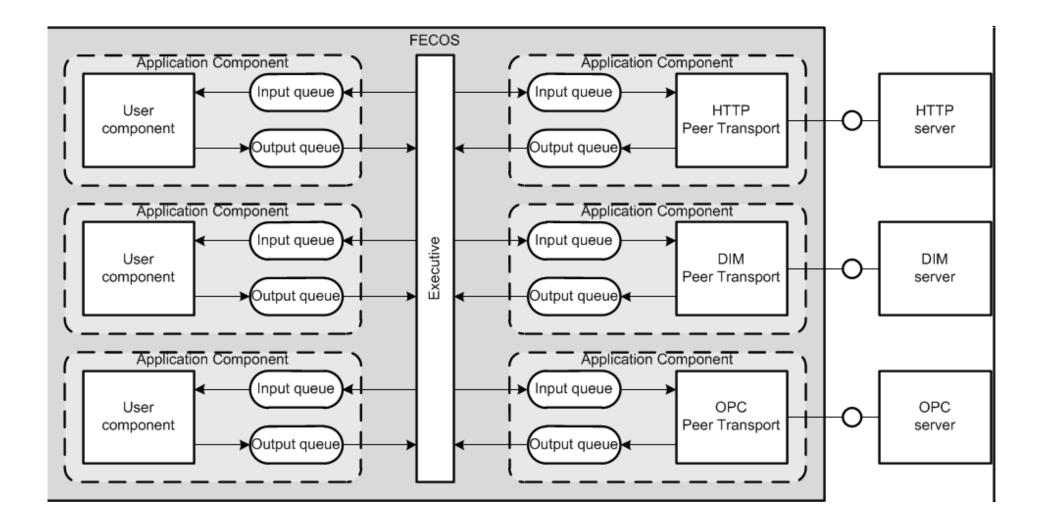
Programmer focuses on control logic

Architecture (1/2)





Architecture (2/2)



OO design (LVOOP) (1/2) -

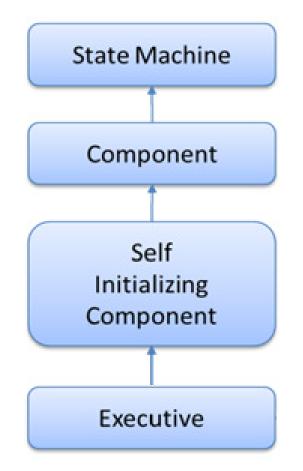
Based on LVOOP

- LV2009 needed to work on RT
- Extensive use of "by reference"
 - We do not want to make "by value" copes of classes!

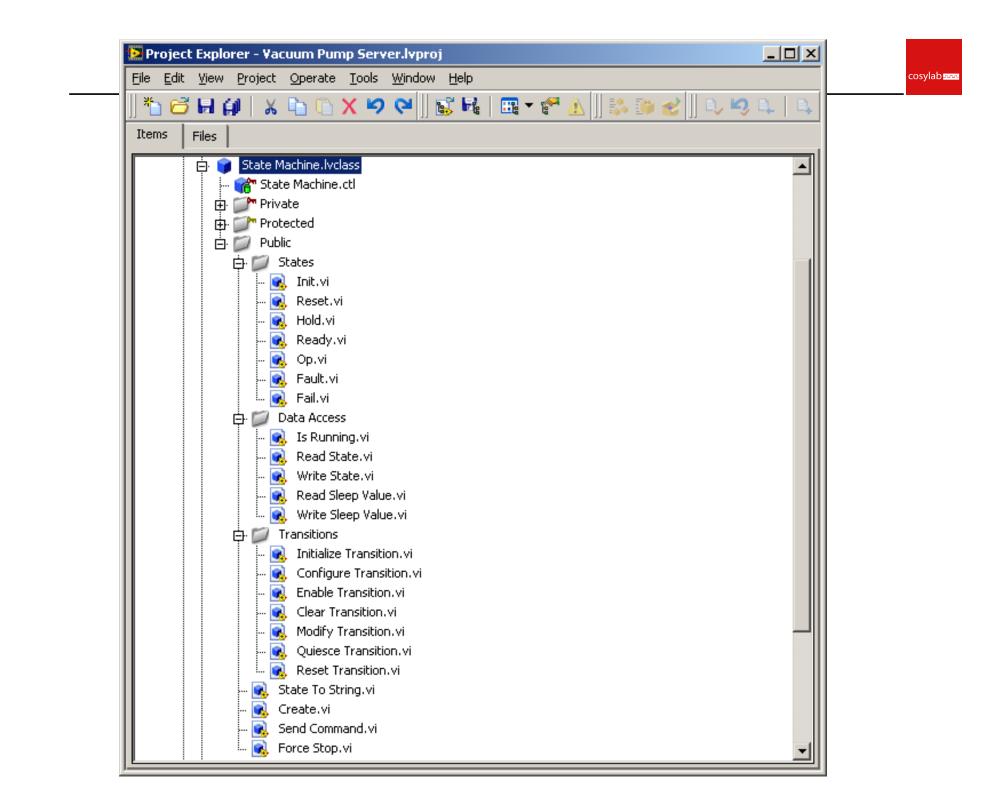
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... see next slide ...

OO design (LVOOP) (2/2)







WHEN FECOS?



- Design finalized until September
- FECOS beta planned in October!

Thank you!