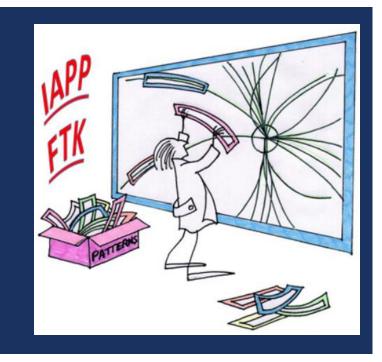
# EXPERIENCE ON DCS

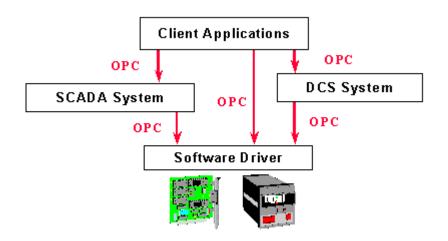
JUNE 16<sup>TH</sup> – JULY 15<sup>TH</sup> 2015, CERN, CH

Konstantina I. Mermikli
Software Engineer, Prisma Electronics
Seconded to CERN from PRIELE



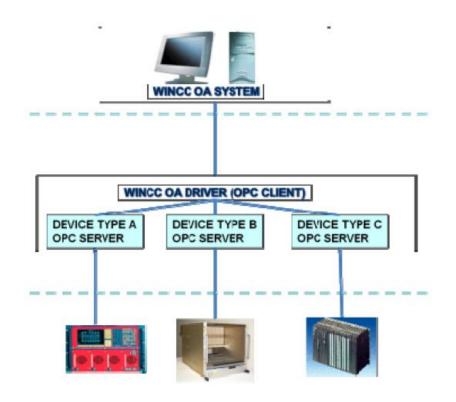
# OPEN PLATFORM COMMUNICATIONS (OPC)

- Industrial telecommunication standard
- Based on client/server architecture
- Interface between software applications and industrial data sources
- Regardless of hardware vendor



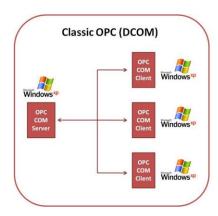
#### OPC @ CERN

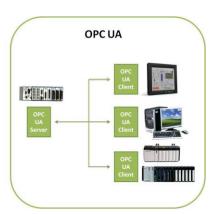
- Common OPC Implementation at CERN:
  - WinCC OA: SCADA software tool
  - WinCC OA communicates via its built-in OPC driver (an OPC Client) with an OPC server and
  - the OPC Server communicates with the physical device



## OPC @ FTK

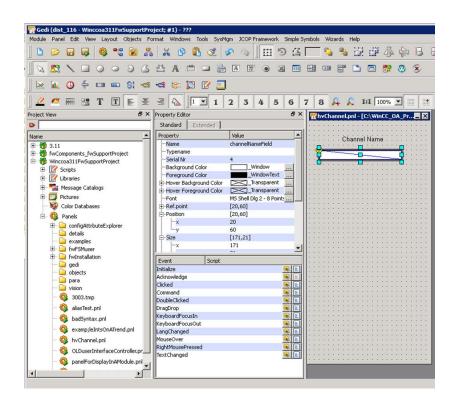
- Equipment was not available at that time
- OPC Server/Client communication tests using Matrikon simulator
- Gather study material on
  - OPC DA Server Configuration:
    - Running ONLY on Windows
    - Given in standard Wiener-CAEN equipment
  - OPC UA Server Development:
    - Multi platform implementation
    - To be used in monitoring the VME boards temperatures





#### WINCC-OA CLIENT

- SCADA software tool by Siemens
- Monitor and control physical processes
- Graphical editor to design user interface
- Scalable to large distributed systems
- Used extensively in CERN and industry
- Design simple widgets to be used in order to monitor FTK VME temperatures



## **THANK YOU!**

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  - Paola Giannetti, Project Leader, UNIPI
  - Ioannis Maznas, PhD student, AUTH

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