



OPC Evaluation

DCS/DAQ meeting October 7, 1998 Philippe GRAS







- OPC = fundation of 168 companies (National Instrument, Siemens AG, Shneider...)
- OPC specifies an interface between :
 - a program and a device
 - 2 programs

based on COM/DCOM.

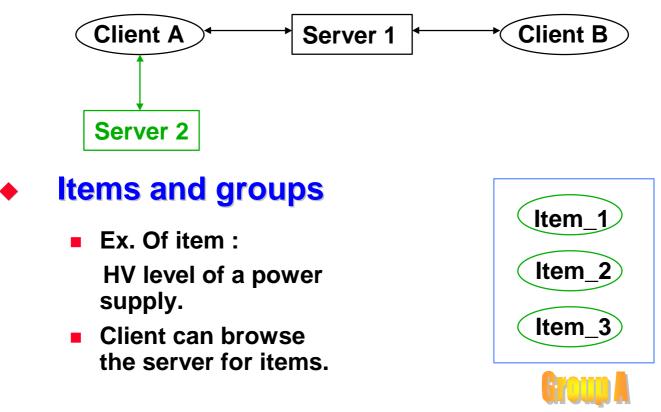
Evaluation to use this interface in an ECS.



OPC concepts



Servers and Clients



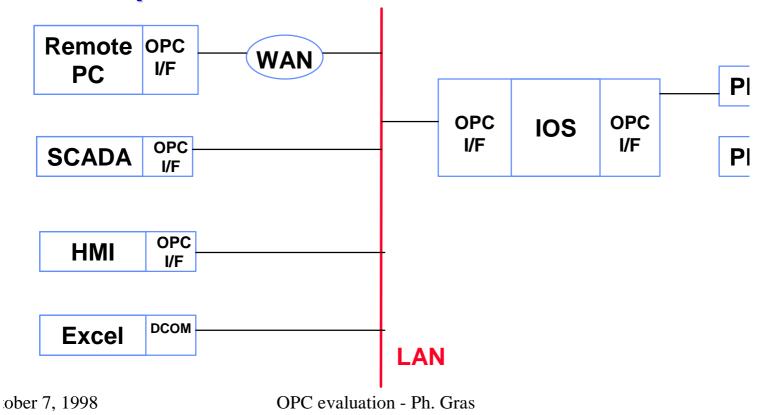
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OPC for what



To build an ECS with already existing components.









 Not have to rebuild what already exists in the market.

Able to customize the parts we need

- e.g. an I/F for a home made electronic card.
- Used widely by industrial :
 - Siemens S7 PLC,
 - Bridgeview,
 - Citec.

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OPC Evaluation



- We need to evaluate OPC to have an objective idea of it.
- This evaluation will be made in the JCOP context.

Evaluate to :

- investigate applicability of OPC in our ECS,
- understand the benefits and the limitions,
- check the interoperability between different vendor products,
- have an hand-on experience.

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An custom server example

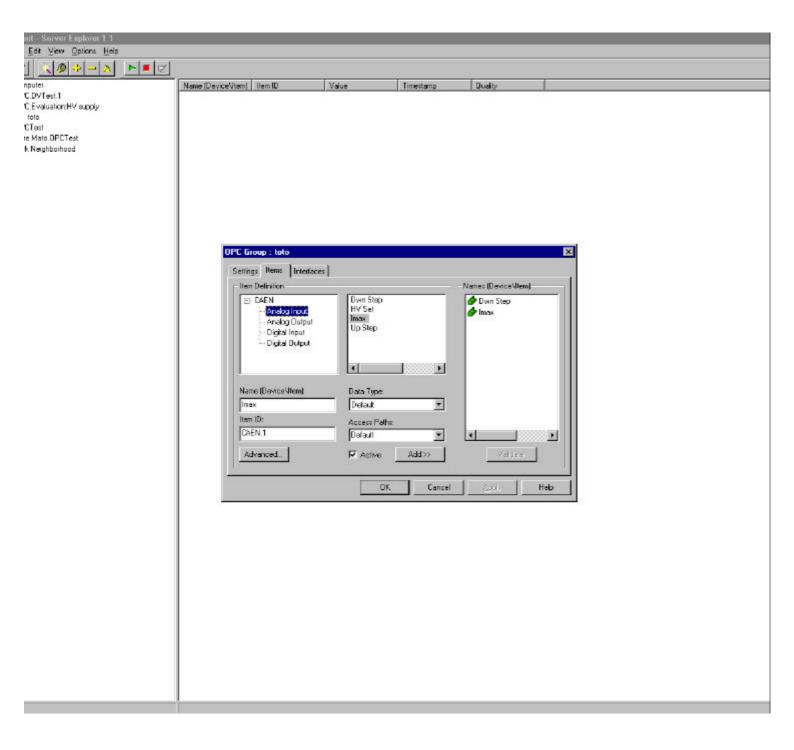


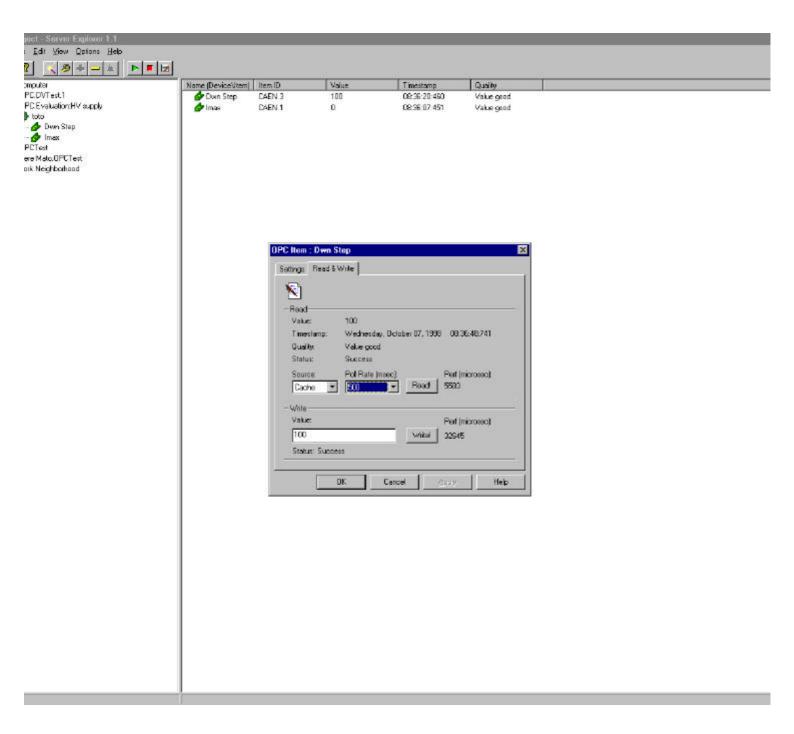
Writing an OPC server for CAEN HV Supply (H.S. CAENET).

- Using a National Instrument kit
 - source code canvas
 - explorer.

This work is for :

- evaluating the easyness of OPC server writing,
- evaluating the performance of a such OPC server,
- I/F'ing HV supplier with commercial products (Citec) evaluated by the JCOP group.











- We're at the begining of this work
- We will make you know the results
- the OPC evaluation will have to drive to an evaluation report.

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