Future Directions for the CAPE-OPEN Interfaces

CAPE-OPEN Annual Meeting 2012
Lyon
Agenda

♦ Brief Presentation of current CO-LaN proposals
  ✷ CAPE-OPEN Object Model
  ✷ CO-LaN Consultancy Service
  ✷ “CAPE-OPEN Tour” dissemination

♦ Associate Member presentations
  ✷ AspenTech
  ✷ …..
  ✷ Feedback from CERE / ChemSep / HTRI / PDVSA / Reaction Design

♦ Round table discussion
  ✷ Not necessarily expecting to reach conclusion
  ✷ Will inform on-going discussions by Management Board
CAPE-OPEN Object Model

- CO-LaN could develop & maintain CO-specific middleware
- Would allow access to .Net, JAVA, high performance computing etc.
- Easier & less error-prone CO software development
- Maintain functionality of existing COM & Corba interfaces
- Will not be cheap!
CO-LaN Consultancy Service

- Provide funding for access to a specialist consultant for:
  - Development of new CO interfaces
  - Improvements to existing CO interfaces
- (Initially) Jasper van Baten (Amsterchem)
- Open to any associate member of CO-LaN
- Process for making an application will be published
- Approval will be provided by CO-LaN Management Board
“CAPE-OPEN Tour” Dissemination

- Standard presentation materials
  - What is CAPE-OPEN
  - What can be done with CAPE-OPEN
  - The benefits

- CO-LaN would provide presentation sessions as required
Feedback

♦ CERE (Centre for Energy Resources Engineering)
  ➥ Libraries to simplify CO implementation
    • Current examples not straight forward
  ➥ Implementations of Flowsheet Monitoring standard
  ➥ Object Model: No, will require too much maintenance
  ➥ Consultancy Service: Possibly in future
  ➥ “CAPE-OPEN Tour”: Would like access to the materials

♦ ChemSep
  ➥ ChemSep “just works” if PME provides CO interfaces
  ➥ Needs bug-free & maintained interfaces in commercial simulators
  ➥ Complete the standard for electrolyte systems
HTRI

- Need end-users to be aware of the benefits of CAPE-OPEN, to drive implementations by vendors
- CO-LaN testing is important
- Interfaces should be seamless, so end-user is not even aware they are being used
- Nominal membership fee for associate members
  - Increases CO-LaN budget
  - Gives access to meetings, testing etc.
- Object model: step in the right direction
- Consultancy Service. Not required directly, but can see the benefits
  - Especially if offered to non-members
- “CAPE-OPEN Tour”. Yes
  - Expand to include advertisements and journal articles
Feedback (3)

♦ PDVSA

✦ Support is required for development of new components
✦ Refinery Reactors interface is needed
✦ CO-LaN as a bridge between developers
✦ Object Model: Yes
✦ Consultancy Services: Yes
✦ “CAPE-OPEN Tour”: Yes, in Venezuela
Feedback (4)

♦ Reaction Design

   ✜ More example code
     • Don’t want to get “bogged down” in implementation details
     • Keep the code up-to-date
       – With operating systems and programming languages

   ✜ Object Model: Yes
     • Higher priority than new interfaces

   ✜ “CAPE-OPEN Tour”: No