

# Interoperability SIG Progress Report 2020

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# Interoperability SIG Annual Report: Charter

## Task:

- To provide tools and advice to support the achievement of CAPE-OPEN interoperability and to carry out interoperability testing where appropriate.

## Key Responsibilities:

- Provide new tools, as required, to support the achievement of CAPE-OPEN interoperability by PMC and PME developers
- Develop and maintain the existing CO-LaN portfolio of software tools
- Use the suite of vendor-licensed software available to CO-LaN to assist in interoperability testing

# Interoperability SIG Annual Report: Deliverables

- ❑ **CAPE-OPEN Logging & Testing Tool (COLTT)**
  - **Allows logging of interaction between PME and PMC**
  - **Maintenance**
  - **Developments to maintain consistency with published standards**
  - **Applicable to multiple versions, has own versioning scheme**
  - **Currently v2.4, released 2016**
- ❑ **TLB/PIA Installer**
  - **Standardised installation of TLB & PIA, to ensure compatibility between PMEs and PMCs from different vendors**
  - **Maintenance**
  - **Developments to maintain consistency with published standards**
  - **Versioning consistent with CAPE-OPEN standard version**
  - **Currently v1.1.0**

# Interoperability SIG Annual Report: Membership

## ❑ As of October 2020

- Malcolm Woodman, M R Woodman Consulting
- Michael Halloran, CO-LaN contractor
- Michel Pons, CO-LaN contractor

## ❑ Work process

- Monthly conference calls to survey progress and identify actions
- Regular joint meetings with M&T SIG, covering issues that overlap the 2 SIGs
- SIG oversees the work by the new CO-LaN Software Development Resource

# Software Development Resource

- ❑ MRW has led the activity to identify a new Software Development resource capable of working across the CO-LaN
- ❑ Scope:
  - CAPE-OPEN Logging and Testing Tool (COLTT) and associated installer
  - Type library, Primary Interop Assembly (PIA) and associated installer
  - Certification self-test suite - Software and installers
  - Note: COBIA middleware is explicitly excluded at this time
- ❑ 3 responses received to RfB (Request for Bids)
  - Following discussions with interested parties, CO-LaN have finalised a 3-way agreement with:
    - Marcus Bruno, Brazil
    - Loïc d'Anterroches, Céondo
    - Jasper van Baten, AmsterCHEM
  - Master contracts signed
  - Actual work and cost of individual projects controlled by “Contractor Work Authorisation Form” (CWAF)

# Activities 2019-2020: Versioning

- ❑ Full versioning proposal has been developed jointly with M&T SIG
- ❑ Proposal defines:
  - Breaking change
  - Feature addition (extensions)
  - Bug fixes, patches, errata and clarifications
- ❑ Version numbering system
  - *Major.minor.patch.(revision or build)*
  - *Major*
    - Breaking change with significant compatibility issues
  - *Minor*
    - Breaking change, but with limited impact
    - All features of version with same *major* number but lower *minor* number are still supported
  - *Patch*
    - Feature addition
  - *Revision or Build*
    - Patch or bug fix

# Activities 2019-2020: COLTT

- ❑ **New release version (v2.5) due for release imminently**
  - **Licence text and copyright notices updated**
    - Following recent Management Board approval of new licensing schemes for all CO-LaN products
  - **Addition of support for:**
    - Energy & Information streams
    - Flowsheet monitoring
  - **Upgrade to VS2019 Community Edition**
  
- ❑ **The potential to use COLTT to track reference counting is to be investigated**
  - **At a minimum, any reference counting issues introduced by COLTT will be removed**

# Activities 2019-2020: TLB/PIA Installer

- ❑ **New release version (v1.1.1) due for release imminently**
  - **Licence text and copyright notices updated**
    - Following recent Management Board approval of new licensing schemes for all CO-LaN products
    - Addresses concerns of vendors over re-distribution rights
  - **Addition of**
    - Flowsheet monitoring
    - Custom Data
  - **Resolution of issues with simultaneous install of both 64-bit and 32-bit merge modules**
  - **Upgrade to VS2019 Community Edition**