Interoperability SIG Progress Report 2019

Malcolm Woodman,   **M R Woodman Consulting / UK**

Michael Halloran,   **CO-LaN contractor / UK**

Michel Pons,   **CO-LaN contractor / France**

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

- **New COLTT version**
  - **with support for Info/energy ports & streams**

- **New TLB/PIA**
  - **including Flowsheet Monitoring**

Interoperability SIG Annual Report: Membership

- As of October 2019
  - 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
  - MP and MH implement, test and resolve defects

www.colan.org

CO·LaN

 Code signing certificate has been renewed with Digicert

- Significant issues due to how the account had originally been setup
- Now resolved, in a way that should now be sustainable, even with possible future changes of CO-LaN Officers
- Valid for 3 years
- Existing signed software does not need to be re-signed

www.colan.org

CO·LaN

- **64-bit vs. 32-bit software**
  - **On-going discussion with M&T**
  - **Ways have been identified to allow both**
    - **a 64-bit PME to execute a 32-bit PMC**
    - **a 32-bit PME to execute a 64-bit PMC**
  - **A recommendation is to be made on which versions of the TLB/PIA installer needs to be included in all installation packages of CAPE-OPEN compliant software (PME and PMC)**
    - **Draft: All PMEs and PMCs should install the appropriate "bitness" of the TLB/PIA installer**

Activities 2018-2019: TLB/PIA

- TLB/PIA Installers
  - An issue has been identified with failure of a "per-user" install
    - May also affect COBIA installer
    - One cause has been identified, so a fix is now possible for this scenario
    - However some installers work without this fix
      - Further analysis still required
  - Issue with delivering both 32-bit and 64-bit merge module in the same installer
    - Work-around identified and implemented
  - Issue with licence not explicitly covering the possible creation of a derivate work
    - Resolution waiting for decision from MB on which alternative licence to use

www.colan.org

CO·LaN

Activities 2018-2019: Versioning

- **Final versioning proposal not yet released**
  - **Waiting on final testing of software elements of proposal**
- **Flowsheet Monitoring will be included in an updated Version 1.1**
  - **Updated TLB/PIA installer will explicitly remove previous version (if present) to ensure consistency**
  - **Additive change, so does not break any existing implementations**
- **Custom Data may also be included**
  - **Inclusion depends on when public release is planned**
  - **Again, an additive change**
- **Thermo 1.0 will remain in Version 1.1**
  - **Despite having been deprecated**
  - **Ensures continuing backwards compatibility**
- **Versioning proposal must handle requirements for future release of Petroleum Fractions interface**

www.colan.org

CO LaN

Activities 2018-2019: COLTT

- Modifications have been made to support Info & Energy ports & streams
- Will upgrade to use latest versions of Visual Studio and log4cxx
- Due for release by end 2019
- Question:
  - COLTT source is open-source
  - Method for creation of the COLTT distributable is currently public knowledge
  - Should the method be kept confidential?
    - Reduces risk of non-approved distributables being created
    - In addition to use of code-signing certificate

www.colan.org

CO·LaN

Availability of Software Development Resource

- ❑ **MH has limited time for development work**
- ❑ **MP & MRW do not have the correct skills**
- ❑ **Resulting in Slow progress on:**
  - ▪ **Software Development**
  - ▪ **Testing**
  - ▪ **Maintenance**

- ❑ **Successful completion of current RfB essential for future delivery by SIG**