Interoperability SIG Report, 2020/21

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Overview

- ❑ **SIG Charter & Work process**
- ❑ **SIG Membership**
- ❑ **CO-LaN Software Development Resource**
- ❑ **TLB/PIA Installer**
- ❑ **Support to Test Suite development**
- ❑ **Testing of CO-LaN software**
- ❑ **Feedback**

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Interoperability SIG 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**

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Interoperability SIG 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 done by the CO-LaN Software Development Resource**

❑ **Independent work by individual SIG members between the calls**

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SIG Membership, October 2021

- ❏ **Malcolm Woodman,**   **M R Woodman Consulting Ltd**
- ❏ **Michel Pons,**   **Chief Technology Officer**

- ❏ **Michael Halloran stepped down from the SIG during the year, following his retirement from AVEVA**
  - ◼ **My personal thanks to Michael for his work for the SIG over many years**

- ❏ **One or more new member of the SIG is now required. Needs to be:**
  - ◼ **Familiar with CO software development**
  - ◼ **Good knowledge of IT architecture & development tools**
  - ◼ **Independent of the M&T SIG**

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CO-LaN Software Development Resource

❑ **Marcus Bruno, Independent contractor, Brazil**

❑ **Loic d'Anterroches, Céondo**

❑ **Jasper van Baten, AmsterCHEM**

❑ **Relationship is working well**

❑ **Work undertaken so far:**

- ▪ **Maintenance of COLTT & TLB/PIA Installer, including upgrade to latest versions of development software**

- ▪ **TLB/PIA Installer Updates**

- ▪ **CO-LaN Test Suite**

  - • **Design**

  - • **Development of prototype**

TLB/PIA Installers. v2.1.1

❑ **Version 2.1.1 released 31st July 2021**

- ■ **Replaces v2.0, released on 23rd February 2017**
- ■ **Addition of new interface definitions**
  - • **Flowsheet Monitoring and Custom Data**
- ■ **Addition of a new "extension" type library**
  - • **To avoid any risk of older type library (1.1) overwriting newer one**
  - • **3 type libraries now installed**
    - – **TLB v1.0 (unchanged from installer v2.0)**
    - – **TLB v1.1 (unchanged from installer v2.0)**
    - – **The extension TLB (installed with no risk that it could be overwritten)**
- ■ **Architecture unchanged from v2.0**
  - • **No additional PIA - the new definitions are included in PIA 1.1**
  - • **2 installation packages**
    - – **one for 64-bit, one for 32-bit**
  - • **2 merge modules**

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TLB/PIA Installers. v2.1.2

❑ **Version 2.1.2 released 23rd September 2021**

❑ **Corrects the following**

- ▪ **Missing event definition in Flowsheet Monitoring specification**

- ▪ **Adds version information for the CAPE-OPEN 1.1 PIA**

- ▪ **Corrects the installation procedure for "current user"**

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TLB/PIA Installers. Versioning

❑ **Versioning of TLB / PIA Installer follows the versioning scheme previously proposed and presented at the Annual Meeting 2020**

  ▪ **Major.minor.patch.revision or build**

  ▪ **Minor digit only updated, as these are additive changes**

    • **v2.0 ➔ v2.1.1. Addition of new interfaces**

    • **v2.1.1 ➔ v2.1.2. Patch to correct issues**

  ▪ **Demonstrates the versioning scheme as proposed is workable**

❑ **TLB/PIA Installers cover multiple CAPE-OPEN versions, so version number does not match a specific CAPE-OPEN standard version**

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Support to Test Suite Development

❑ **Interoperability SIG has been closely involved in the development of the design of the Test Suite, through**

■ **Offline review of documents**

■ **Phone conferences with Software Development Resource**

■ **Consideration of design in joint meeting with M&T SIG**

❑ **A key role of the SIG will be to continue to provide this oversight and review at all stages of the development of the Test Suite**

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Interoperability SIG – Plans for 2021/22

- Recruit at least one additional member to the SIG
- Management of & support to continued development of CO-LaN Test Suite
  - Release version for Thermo PMC
- Release of COLTT v2.5
  - Logging of energy/info streams and ports & Flowsheet Monitoring
  - Built using TLB/PIA Installer v2.1.2
  - (Most of development work is already complete)
- Other maintenance of COLTT & TLB/PIA installer as required
- Continued regular meetings with M&T SIG

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Testing of CO-LaN software

❏ **TLB/PIA Installer development has shown the importance of adequate testing before release**

❏ **Especially important for:**

- ▪ **TLB / PIA Installer – essential component of vendor software**
- ▪ **COBIA – again, integrated into vendor software**
- ▪ **Test Suite – Underpins certification**

❏ **Less important for debugging tools such as COLTT**

❏ **A suggestion**

- ▪ **CO-LaN members should be invited to participate in a formal beta testing process before release of the 3 tools identified above**
- ▪ **Discuss!**

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Feedback

- Nominations / volunteers to join the Interoperability SIG?

- Is a formal beta test programme for CO-LaN software a good idea?

- …….

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