

Technology Committee Interoperability Sub-Committee Executive Charter

1 Introduction

Interoperability between information systems and software has garnered significant attention for over two decades. The consensus within the CII community is that interoperability is a fundamental enabler for efficient information management across the asset lifecycle. There are several active initiatives focusing on the design and operations of capital facilities. While they all seem to be marching towards a common goal, for the most part, these efforts run largely independent of each other. As a result, we have today a variety of solutions/approaches, catering to various aspects of interoperability, and in varying states of maturity and adoption. We are past debating the value of interoperability. OOs, EPCs and Technology providers are working together in these forums to bring interoperability to fruition.

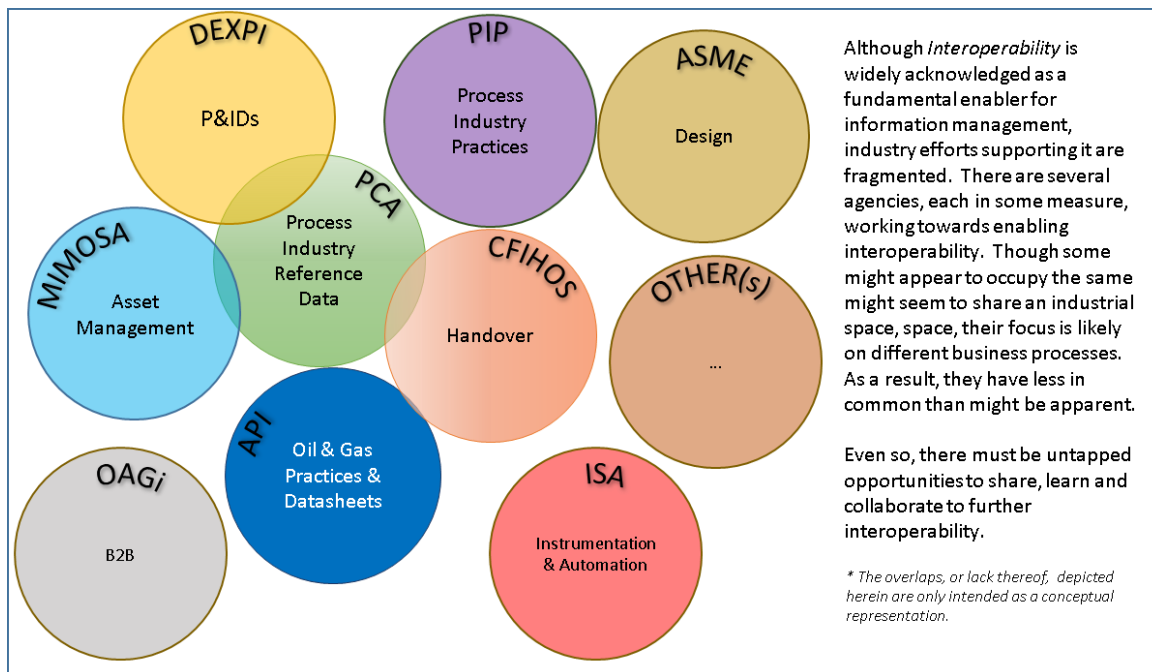


Figure 1 - Industry efforts supporting Interoperability are fragmented

2 Purpose

The CII Technology Committee has instantiated Interoperability as standing projects to “research and develop technologies that leverage industry standards, such as ISO 15926, to facilitate information exchange between business partners and the systems they use to generate, maintain and store asset information”¹.

¹ FIATECH Sector Committee Charter

The purpose of the Interoperability Sub-Committee is to drive the utilization of existing standards and specifications to achieve the interoperability objectives defined by the CII community

To this end, the purpose of the Interoperability Sub-Committee would be to:

- Facilitate cooperation between the various Interoperability initiatives, including supporting existing cooperation agreements which are producing useful outcomes
- Help articulate and maintain a mutually agreed upon path forward, and
- Rationalize a series of deliverables aligned with CII priorities and subject to other industry demands and/or trends

3 Scope

Given the width and depth of interoperability, and the various interpretations it lends itself to, we must define a clear objective before we can embark on trying to achieve it. The Interoperability Sub-Committee will:²

1. Facilitate realizing Interoperability

- Define the scope of Interoperability, i.e. articulate the range of business processes covered by our definition, and periodically publish updates to the scope.
- Facilitate realization of the scope in phases through sanctioned projects
- Establish go/no-go criteria for projects, e.g. urgency, priority, resources, commitments from stakeholders, etc.
- Establish clear guidelines that projects must conform to, e.g. deliverables, schedule, progress measurement, methodology, delivery framework, etc.

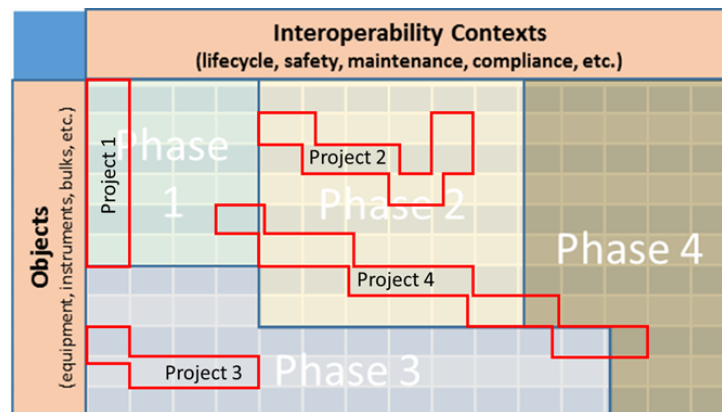


Figure 2 - Realizing the Scope through a series of Projects

2. Establish a framework for progressing project deliverables into industry solutions, by ensuring alignment between Technology Providers, EPCs/Contractors/OEMs and OOs.

² See *Interoperability Sub-Committee Technical Framework* for details on scope and methodology

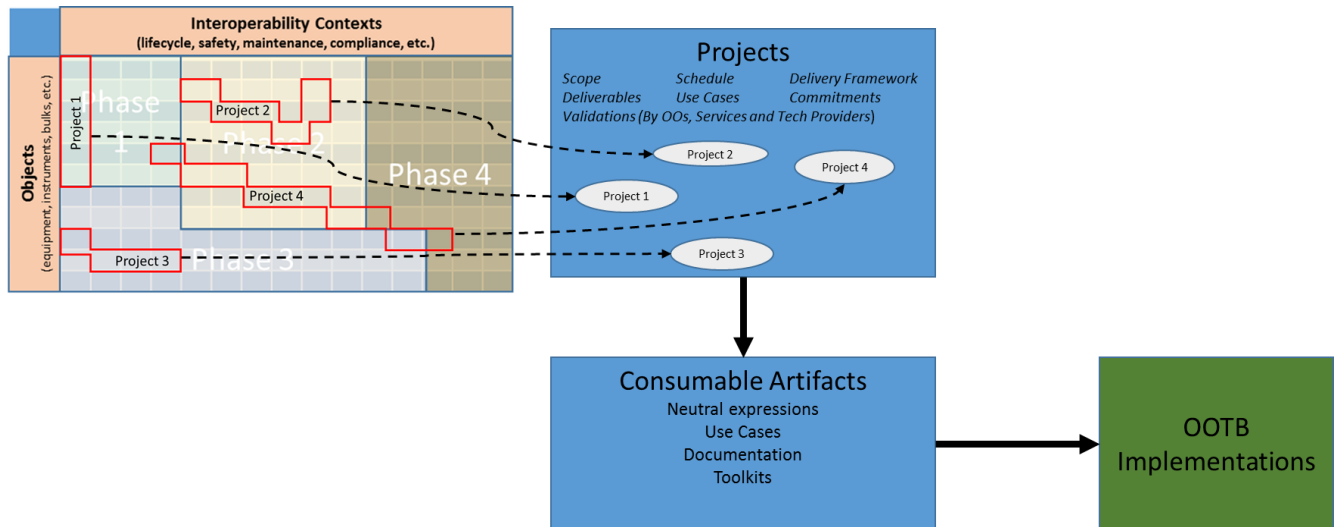


Figure 3 - Executing an Interoperability Project

3. Stay abreast of interoperability initiatives in flight worldwide, with the goal of promoting collaboration, and exchange/reuse of information.
4. Develop and publish a roadmap documenting our interoperability efforts.
5. Coordinate activities, and share information with the CBAs, and the sub-committees, to ensure mutual support.

4 Membership

Participation in the Interoperability Sub-Committee is limited to the following groups of individuals:

- CII member company employees
- Academics with research interests in the sector
- Liaisons representing organizations/forums engaged in activities with the Interoperability Sub-Committee, and with which CII has established a working arrangement (e.g. contract, MOU, etc.)

As a condition of membership, the following responsibilities apply:

- Participate on a regular basis (attend conference calls and meetings)
- Comply with CII Meeting Guidelines

5 Key Roles and Responsibilities

The Interoperability Sub-Committee will maintain the following leadership positions with specific responsibilities as follows:

5.1 Interoperability Sub-Committee Chair

The Interoperability Sub-Committee Chair, appointed by the FIATECH Sector, shall develop agendas and preside over meetings and conference calls. The Chair and Vice Chair will report periodically to the Sector Leadership Committee on progress and activities.

5.2 Interoperability Sub-Committee Vice Chair

The Interoperability Sub-Committee Vice Chair shall assist the Chair in the development of agendas for meetings and conference calls, assume leadership duties in the absence of the Chair.

If the Chair or Vice Chair positions are vacated, for any reason, the committee membership will elect an appointee from a list of nominations, in a confidential popular vote. Voting will be held during an Interoperability Sub-Committee meeting.

The responsibilities

5.3 Interoperability Sub-Committee Academic Advisor

The Interoperability Sub-Committee Academic Advisor will be appointed by CII Technology Committee and will complete the following tasks:

- Advise the Interoperability Sub-Committee on developing research topics/projects and conducting research.
- Act as a liaison between the Interoperability Sub-Committee and the Funded Studies Committee.
- Onboard new members into the Interoperability Sub-Committee and maintain the membership roster.
- Maintain the Interoperability Sub-Committee collaboration site to facilitate access to collected documents
 - Determine the quality and appropriateness of documents to be posted
 - Obtain permission from authors when copyrights or intellectual property are considerations to be accounted for

5.4 Interoperability Sub-Committee Industry Advisor

The Interoperability Sub-Committee Industry Advisor(s) will be appointed by members of the Interoperability Sub-Committee, and will be responsible for:

- Staying abreast of the activities/developments in relevant interoperability organizations/forums worldwide
- Advising the Interoperability Sub-Committee with the purpose of promoting collaboration, exchange and re-usability of information.

6 Communications

- The Interoperability Sub-Committee's periodic face-to-face meetings will normally be held alongside other CII/FIATECH sector events
- Conference calls and web meetings will be sponsored by a member of the Interoperability Sub-Committee or by CII, and will be conducted between the face-to-face meetings on an as needed basis.
- Written communications will be facilitated through email and the collaboration site.

7 Key Interfaces

The Interoperability Sub-Committee will interface with the following organizations, committees, subcommittees and members, as it delivers its mandate.

- CII Technology Committee Leadership

- Organizations engaged in interoperability/digitalization initiatives worldwide that align with the goals of the Interoperability Sub-Committee
- CII Communities for Business Advancement
- Funded Studies Committee, Implementation Committee, Technology Awareness Development Committee, and other standing committees, as needed

8 Critical Success Factors

The Interoperability Sub-Committee will establish, and continuously review, to assist in meeting its stated purpose. For example,

- Active participation from owners, service providers, and technology providers
- Progress on the interoperability roadmap
- Adoption of interoperability artifacts (resulting from CII sanctioned Interoperability projects) by owners, service providers, and technology providers

9 Document Change Log

Version	Status	Date	Comments
0.1	Draft	July 23 rd , 2018	Draft by Sriniv. Avantsa
0.2	Draft	Aug. 17 th , 2018	Updates – Sriniv. Avantsa, M. Dharwadkar, A. Johnston
0.3	Draft	Oct. 9 th , 2018	Updates – Sriniv. Avantsa, A. Johnston
0.4	Draft	Oct. 13 th , 2018	Updates – Sriniv. Avantsa
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1.1	Draft	Mar. 4 th , 2019	Edits – Sriniv. Avantsa, Tedd Weitzman
2.0	Issued	Mar. 22 nd , 2019	Sriniv. Avantsa