



**AeroSpace and Defence**  
Industries Association of Europe

# **AIA – ASD Interoperability coordination concal 30<sup>th</sup> of Jan. 2019**

## **Implementor Forums**

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# Overview of the CAX IF activities in 2019, supported by AFNeT, PDES Inc and prostep ivip associations



## Project Plan

**AFNeT / PDES, Inc. / prostep ivip Project Group**

**CAX Implementor Forum (CAX-IF) 2019**

## CAX-IF Overall Organization



### CAD Implementor Forum (CAD-IF)



User Group

Impl. Group

AP242

### CAE Implementor Forum (CAE-IF)



User Group

Impl. Group

AP209 Ed. 2

### Electrical Wire Harness Impl. Forum (EWH-IF) (Start 2019)

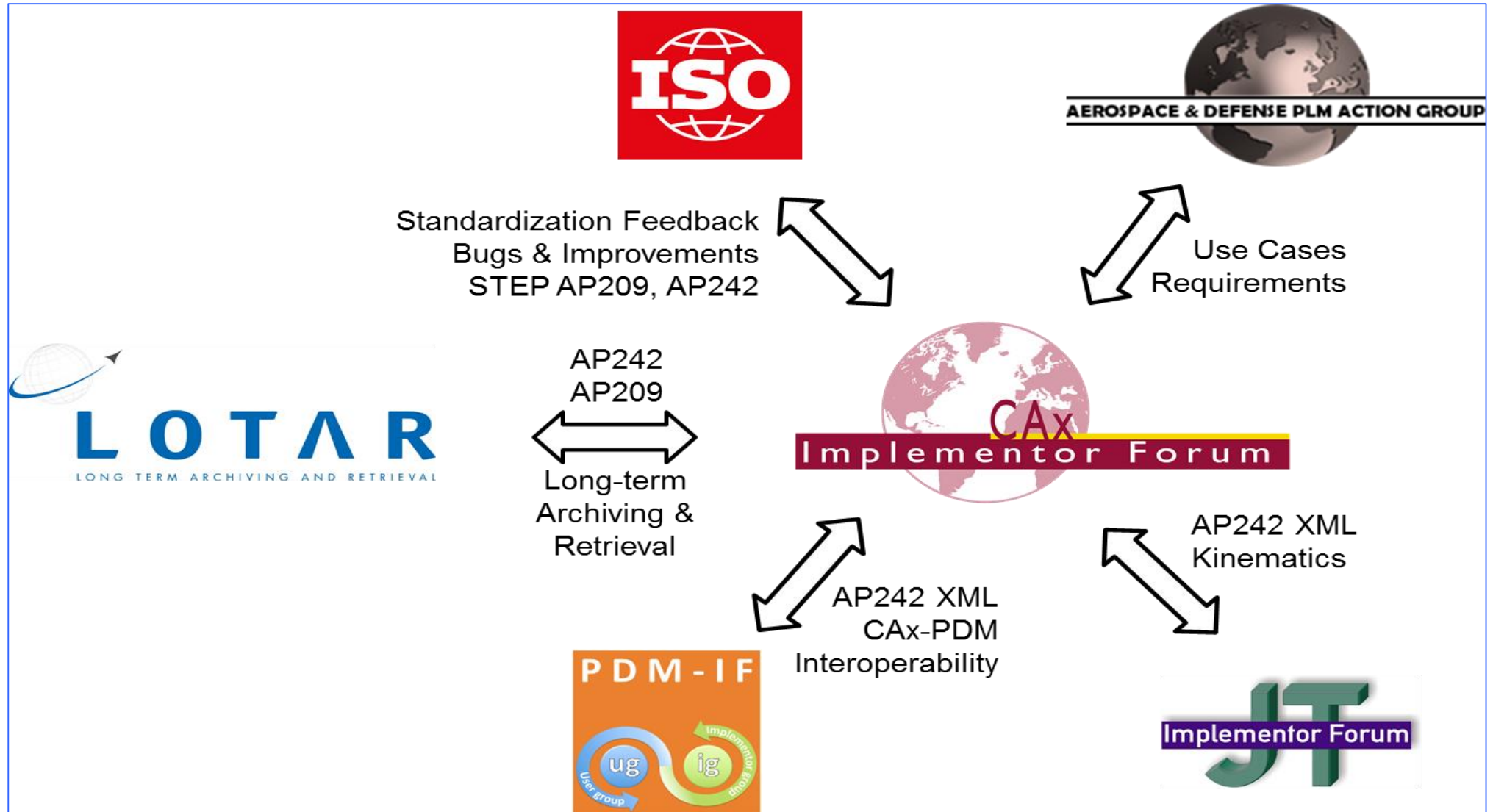


User Group

Impl. Group

AP242 Ed. 2

# Main interdependancies of the CAx IF



# Preparation of the launch of the Electrical Implementer Forum based on ISO 10303 AP242 edition 2

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## Planning

- Preparation of the launch of the Electrical User Group in Q2 2019
  - Works during 6 months
  - Description of use cases and prioritization
- Parallel activities
  - Planned ISO publication of AP242 ed2 IS in Q4 2019
- Target to have the 1<sup>st</sup> confcal of the Elec. Implementor Forum with the EWG editors / integrators in Q4 1019

# Preparation of the launch of the Electrical Implementer Forum based on ISO 10303 AP242 edition 2

## Objectives of the Electrical Implementer Forum

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- To speed up the implementation and deployment of Electrical wiring harness information interoperability based on ISO 10303 AP242 ed2
- To define generic use cases for Interoperability of Electrical wiring harness information
  - Short term: exchange, LT archiving, visualization,
  - Mid term: analytics, web services based on AP242 ed3
- To prepare representative public tests cases
- To specify recommendations for minimum information to be part of the log files
  - to ease the operational use of AP242 interfaces

## List of generic families of use cases for Electrical Wiring Harness information interoperability

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- Exchange of Electrical wiring harness information
  - between OEM and suppliers / partners (bi directional)
  - between the OEM Electrical tools sets (functional, installation, electrical Database, simulation, 3D digital mock-ups, tests, 3D documentation, etc)
- Migration of Electrical wiring harness information
  - Obsolescence of tools
- Visualization of Electrical wiring harness information
  - Integration / sharing (based on web services)
- Export for Analytics of Electrical wiring harness information
- LT Archiving and Retrieval of Electrical wiring harness information in AP242 ed2
- Data quality of Electrical wiring harness information stored in AP242 ed2



# Preparation of the launch of the Electrical Implementer Forum based on ISO 10303 AP242 edition 2

## Main objectives of the EWH-IF User Group (EWH-IF UG)

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- Main objectives:
  - Document common industry use cases and associated business values
    - Define the customers
  - Derive business requirements
  - define requirements to the data exchange and the processing applications (based on the use cases)
  - Define validation properties and quality control rules meaningful for the business processes
- Tasks & Results:
  - Organize and host User Group Meetings (Workshops & Conference Calls)
  - Moderate discussions and expedite the finding of agreements
  - Actively exchange relevant information with the EWH-IF Implementor Group
  - Jointly define industry use cases based on practical experience of OEM as well of suppliers
  - Prepare EWH-IF User Group web pages, part of the Electrical IF public web site
  - Define test cases from the user perspective as inputs for the Implementor group to test and understand the defined use cases
  - Specific validation properties
  - Meeting Minutes
  - Documentation and appropriate distribution of joint results

## EWH-IF Implementor Group (EWH-IF IG)

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- Objective of the Test Rounds:
  - give the vendors the chance to try out new approaches
  - improve vendors implementations so that newly introduced capabilities will be robust and stable.
- Scope of the Test Rounds:
  - the detailed scope & schedule for each test round defined by the EWH-IF user group based on their requirements
  - topics of interest for 2019 (priorities to be confirmed by the EWH User Group)
    - exchange of electrical wire lists,
    - electrical wiring harness for design and construction
    - 3D physical electrical harness 'as installed' data.
- Tasks & Results:
  - Organize and host meetings (Meetings & Conference Calls) for the EWH domain
  - Launch of the first round of testing (Round 1E) in 2019.
  - Facilitate discussions and resolutions of technical issues
  - Actively exchange relevant information with the user community
  - Meeting Minutes
  - Test Suite documents and results summary for each test round
  - Updated Recommended Practices for the implementation of STEP AP242 Ed.2.

# Main interdependancies with the Electrical IF

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## Manufacturers trade associations

- ASD, AIA, GIFAS, GALIA, VDA?, etc

## PLM Manufacturers groups

- A&D PLM Action Group "3D MBD"
- etc

## Learning associations

- TBC,
- TBC

## Standardization orgs.

- ISO /TC184 /SC4  
: ISO 10303 STEP AP242 / AP239 / AP210
- ISO /TC 20/SC 1
- IEC
- LOTAR Electrical WG,

## Electrical Implementer Forum

## Standardization associations

- PDES Inc, AFNeT, prostep ivip , etc,

TB  
conf.

TB  
conf.

TB  
conf.

## other Implementer Forums

- PDM IF
- CAx IF (Mechanical IF), etc