PDM-IF Use Case: Visual Issue Management (VIM)

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PDM-IF Consortium Members

prostep ivip (Germany)

- Airbus
- Beta CAE
- BMW
- Boeing
- Daimler
- PD Tec
- PROSTEP AG
- T-Systems

AFNeT (France)

- Airbus
- CT CoreTechnologie
- Dassault Systèmes
- Datakit
- GIFAS (Dassault Aviation, Liebherr)
- PFA
- PTC
PDM IF - Business Needs & Benefits

User & Vendor Needs

- Communication of business requirements
- Feedback on implementation support
- Harmonized guidelines for implementing requirements in STEP
- Shortening development cycles and increasing the stability of STEP interfaces
- Ensuring stability of new capabilities and support longevity of data, hence safeguarding investments
- Feedback on the data model to the standardization community to increase quality of the standard

Benefits

- Common understanding by common Use Cases and Best Practices
- Trusted environment to develop STEP XML interfaces faster and with higher quality, based on harmonized industry requirements
- Contributing enhancements to the upcoming versions of STEP standards
Use Case Visual Issue Management – Illustration Example

The simulation expert identifies an issue: Collision between part and welding gun

He uses Visual Issue Management workflow to document the issue and forwards to designer

The geometric designer opens the issue/scene via VIM in CAD tool and provides a solution in CAD tool

Designer hands over the solution back to the simulation expert via VIM
Use Case Visual Issue Management – Big Picture

Product Development Process & Domains

Integration currently based on proprietary formats

- Virtual assembly validation
- Physical assembly validation
- Logistics Planning and validation
- Assembly planning and validation
- Paint shop planning and validation
- Body shop planning and validation
- Press shop planning and validation

Quality of the virtual car in both concept and design work.

Design and validation.

External Partners

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Thema: Lore Ipsum
Use Case Visual Issue Management – Main Requirements

- Describe issue in context of PDM data and 3D CAD geometry

- PDM and CAD data should not be touched for issue description
  - Maybe the issue describer is not the owner of the PDM/CAD data
  - The PDM/CAD data is part of release processes – not the issue description

- There should be a possibility to clearly mark the issue in 3D context and define the position/view to see the issue
  - Complemental CAD to mark the issue and to give additional information
Progress / Status

2018
- Use Case definition
- User Group discussed and identified cross company requirements
- Step by step description
- Test case definition per step with sample data

2019
- Use Case review
- Implementor Group discussed the use case with users
- Identified out of the box AP242 support (e.g. PDM and CAD transfer)
- Identified gaps to be supported in the future (e.g. camera position, redlining without touching CAD data,… )

2020
- Include AP242 supported requirements in vendor test cases for verification
- Work on additional requirements to support with AP242 in the future
Networking People

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Thank you for your Attention

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