

Use Case: Exchange of Work Order for Design Change

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Aim

Exchange between an OEM's Word Order (also named "Prime") to its a Supplier for a Design Change a Product Assembly, and Exchange of the results of the Supplier's change to the OEM.

Actors

- OEM
- Supplier

Preconditions

OEM is able to produce a valid technical data package from different applications of its information system, which is essentially its CAD and PDM systems. The content of the dataset exported is the multilevel assembly structure, change order, the master data of each assembly/component part, the 3D positioning of each component part and a reference to 3D geometry and associated documents.

Description

The sub-assemblies of the Prime's product already exist in the Prime PDM system and in his Partners systems.

An evolution of the product design of the Prime is impacted. A Work Request is created by the Prime. A Work Order created by the Prime for each relevant partner regarding the impacted the sub-assembly of the product. A CAD Study is associated to the Work Order. The Prime share the Work Order to the relevant Partner.

In order to implement technically the change in the product design, the Partner creates its own Work Order in his system. Partner 1 creates one or multiple activities based on the work order. Partner 1 implements the change in the Product Structure in the context of Activities.

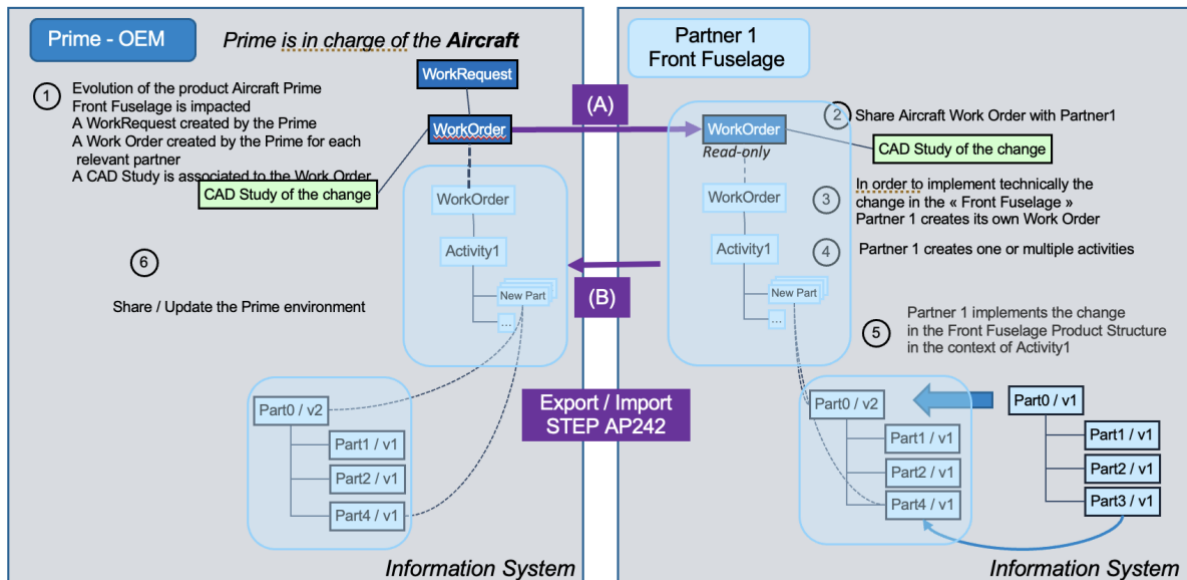
The change is shared to the Prime in order to update the Prime's system environment and implement the change.

Postconditions

The partner is able to interpret the Work Order and the associated activities from the Prime.

The Prime is able to interpret the resulting design change from the Partners and update his product assembly.

Diagram



Benefits

Enable a powerful design collaboration across company boundaries.

Ability to collaborate between a Prime and his Partners to request a change in a semantically accurate way with the associated recommended usage of AP242.