# Integration and data life cycle

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### Main goal

- Only the CATIA/Smarteam data are involved by the datalife cycle.
- Why integration data should be follow a data lifecycle?
  - To have a correct status on the document stored in smarteam.
  - To be sure between different model with the same description only one is the valitaded model and can be use.

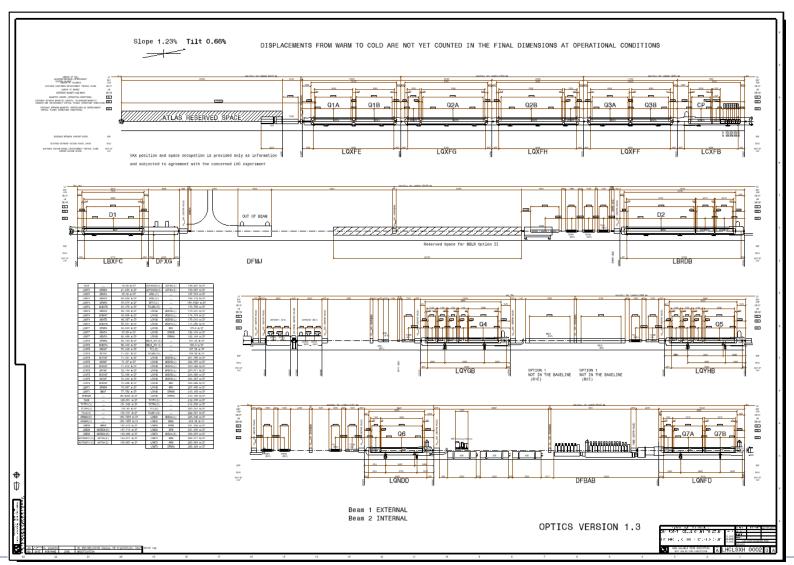


## Integration data. Drawings & 3D Models

- Conceptual layoutDrawing \*
  - Produced by Excel Engine
- Consolidated layout Drawing \*
  - Produced by DMU Engine
  - Produced by hand
- Differential layout Drawing
  - Produced by hand
- 3D scene Drawing not necessary
  - Produced by hand



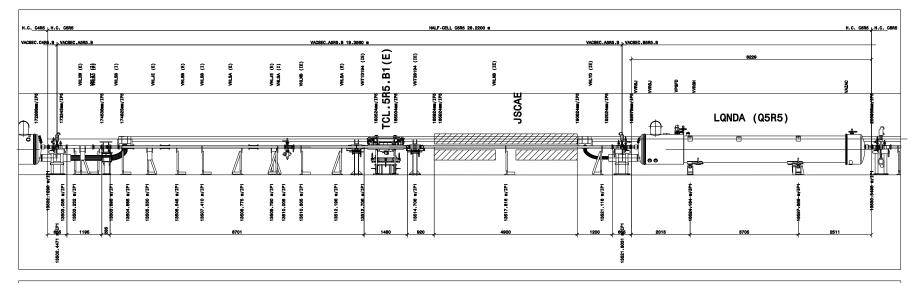
# Data conceptual layout Excel engine

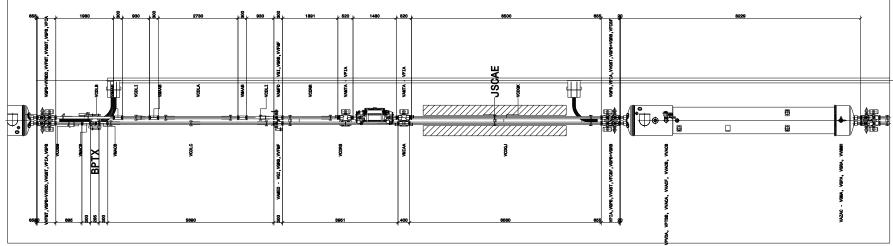






# **Consolidated layout Drawing**

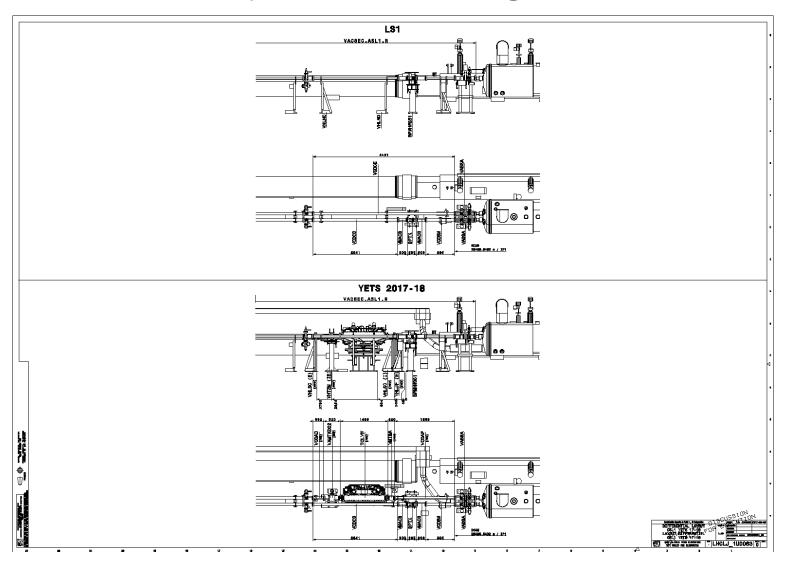








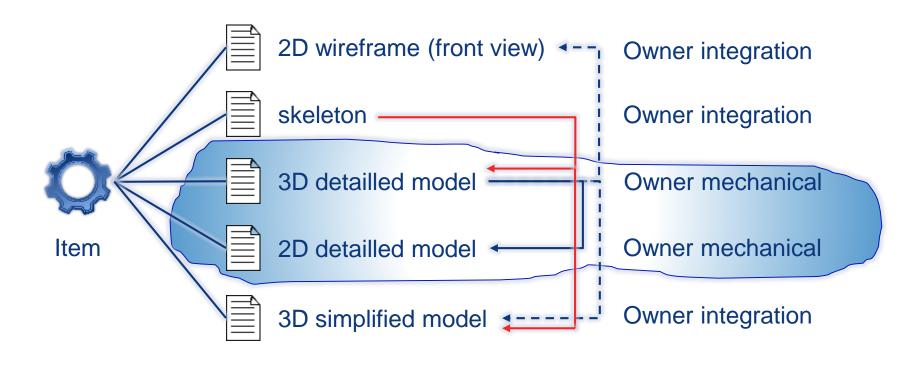
# Differential layout Drawing







#### Data model equipment

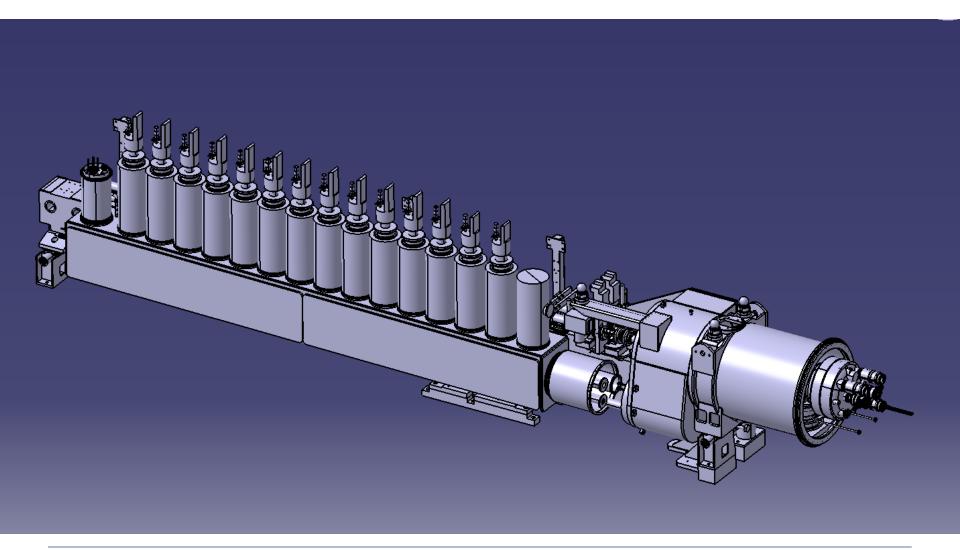








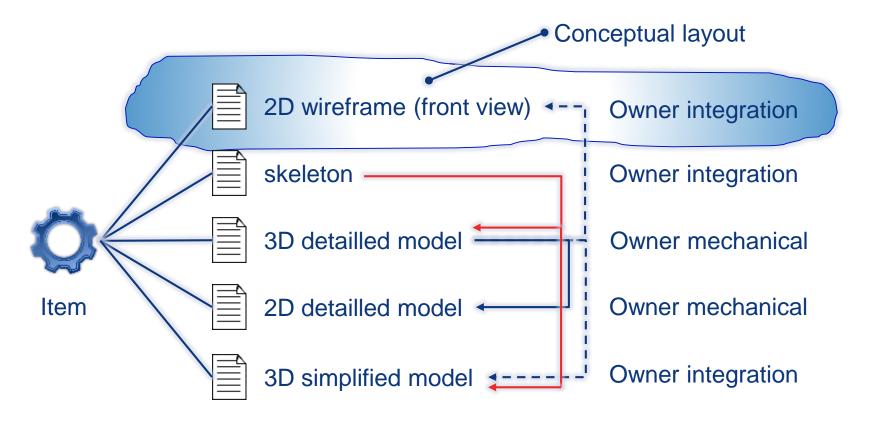
#### 3D detailled model







#### Data model equipment

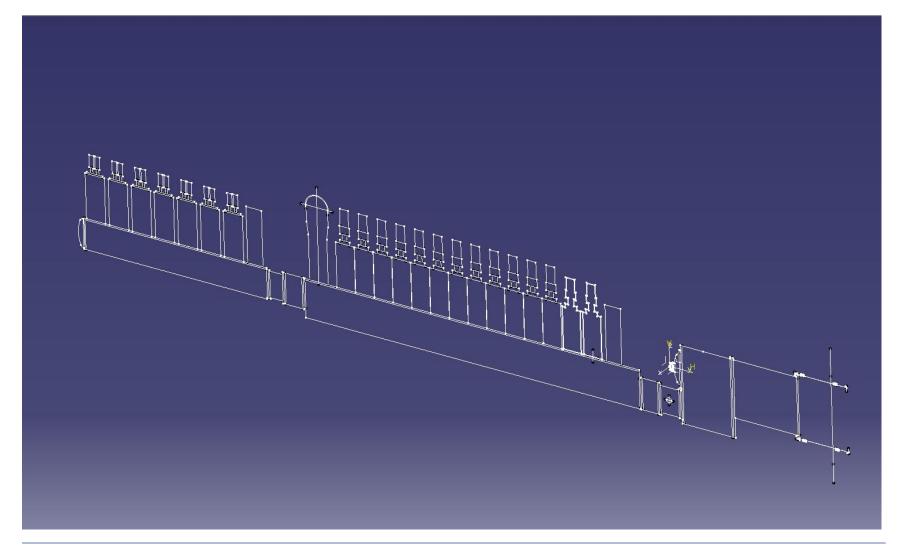








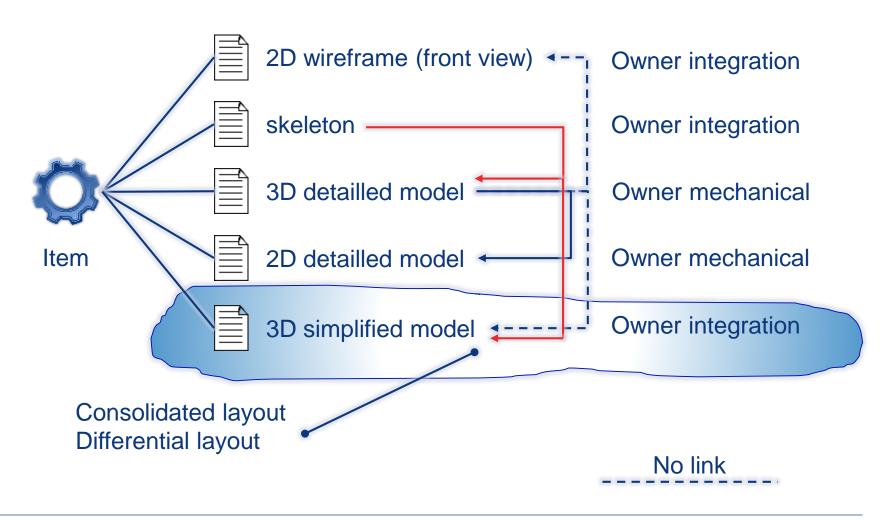
### 2D wireframe







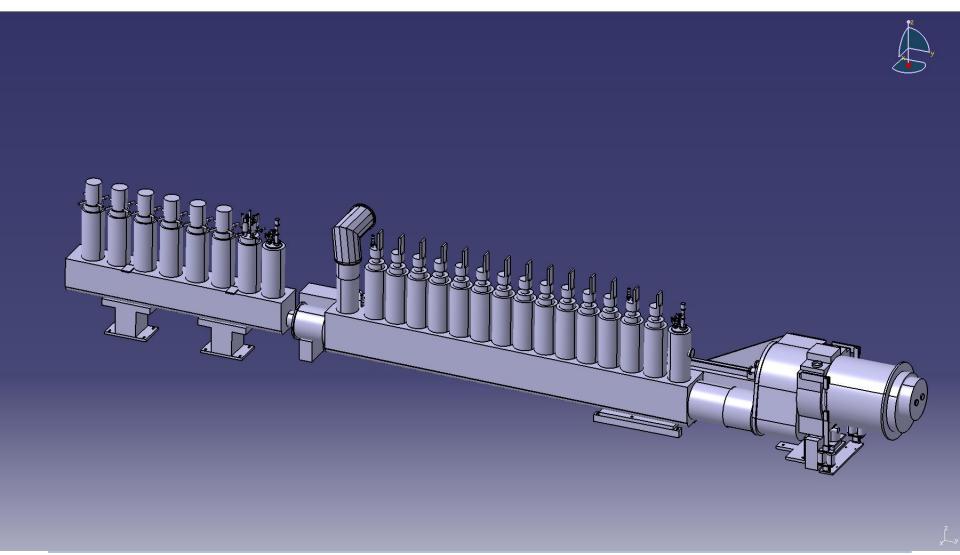
#### Data model equipment







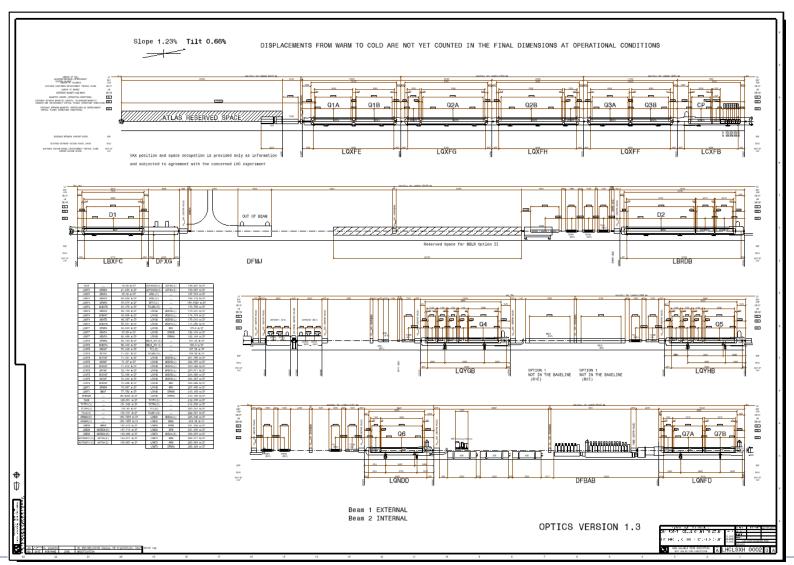
# 3D simplified model







# Data conceptual layout Excel engine

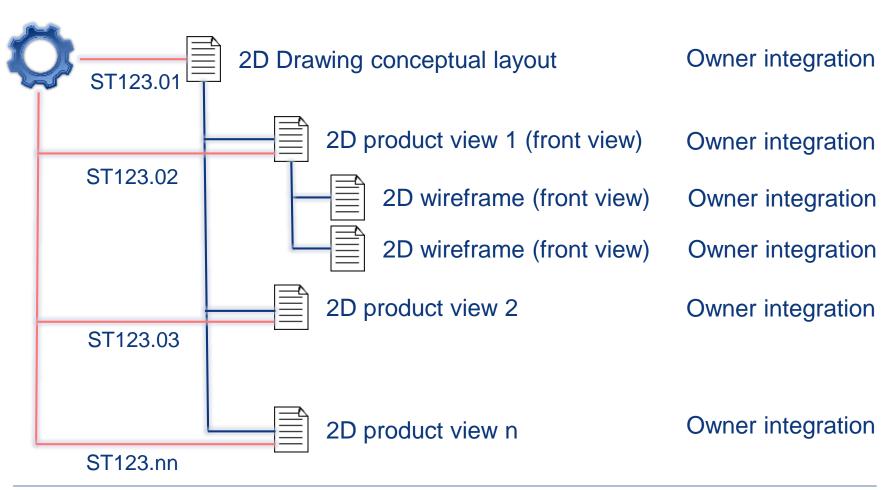






#### Data conceptual layout Excel engine

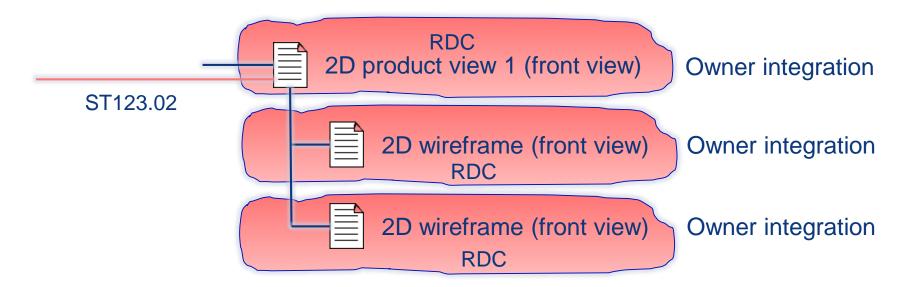
Item ST123







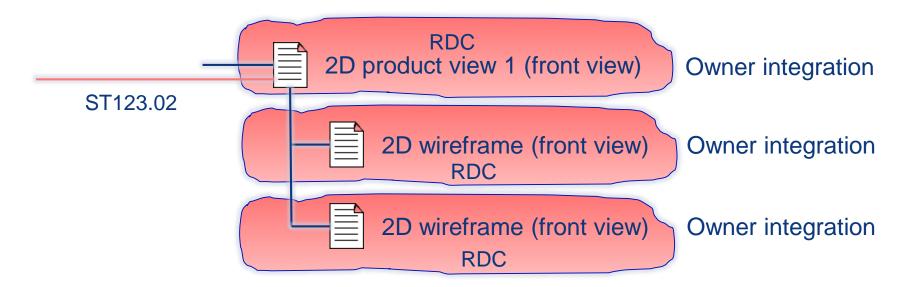
#### Data conceptual layout Ready for check







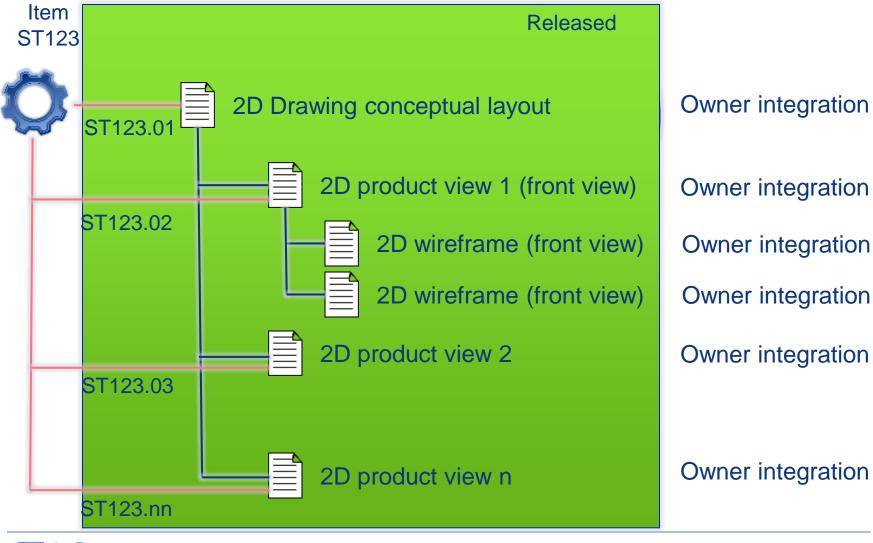
#### Data conceptual layout Ready for check







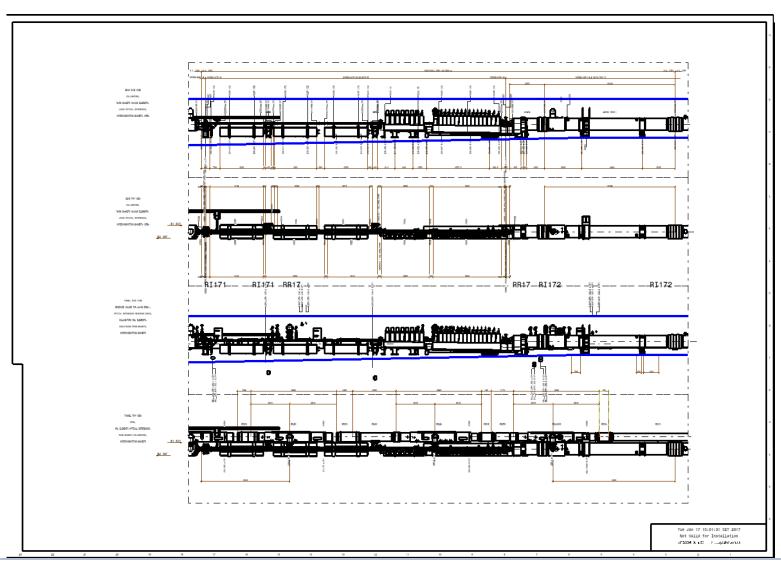
#### Data conceptual layout control







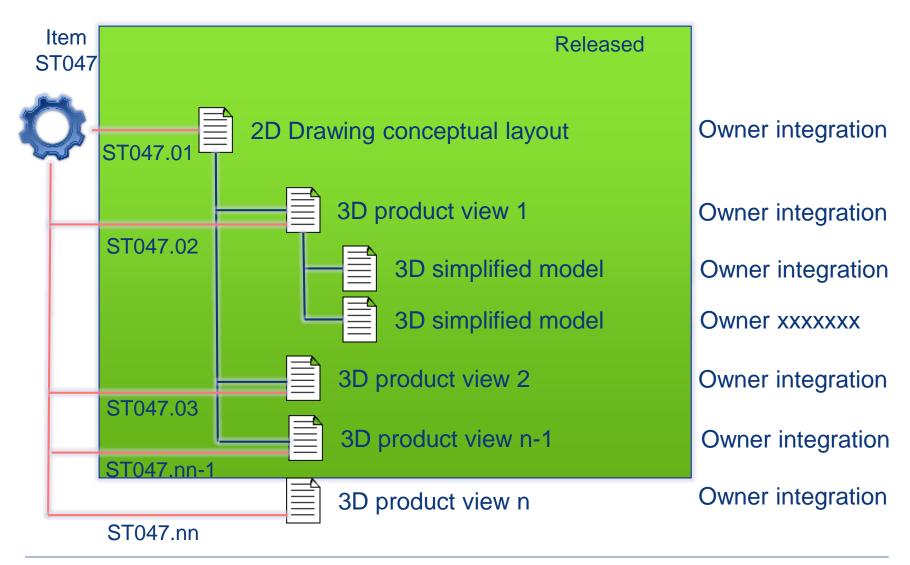
### Data consolidated layout DMU engine







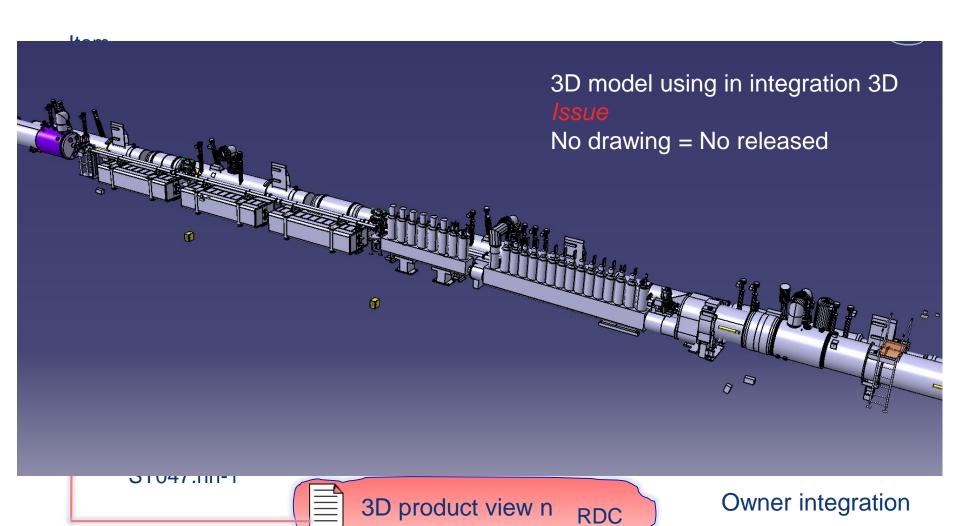
#### Data consolidated layout DMU engine







#### Data consolidated layout DMU engine

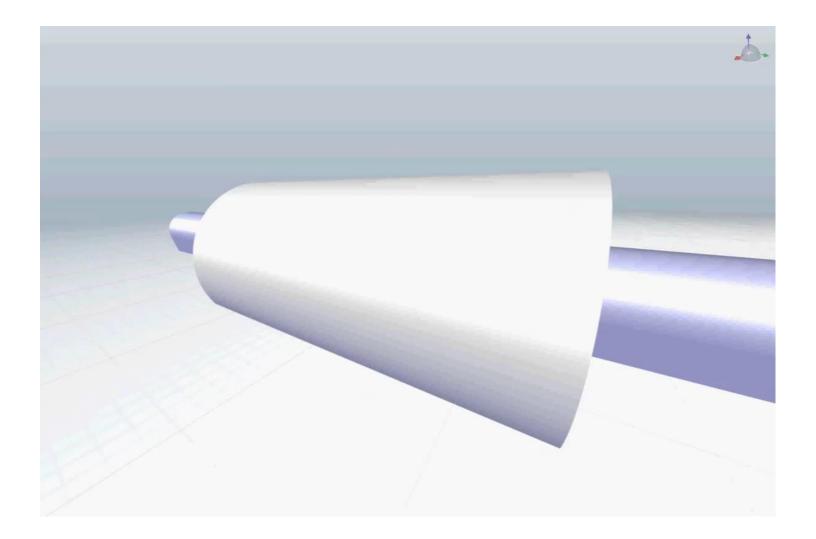






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#### Integration example - video







# Integration work Process

#### Study phase



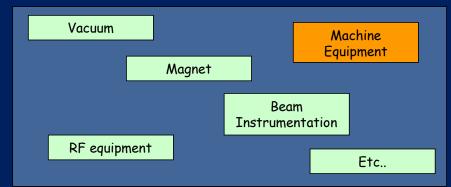
3D models

Integration Team



Design offices

#### Mechanical design office





Security Eq. Fire detection



#### 3D Scene

- Normally no integration drawing = no 3d model released.
- But integration is the owner of the top product and the 3D model services inside is under designer service responsability.
- Two main point:
  - Integration 3D model top product and all the other components should be released.
  - Integration 3D model top product can be use by other designer in a drawing. In this case the top product should be ready for check or released (and all the components)









