

Virtual Masterclass Series on

Industry4.0

for the Enterprise

Session V on Enterprise Product Development

📅 9th September, 2020 ⌚ 4:00 PM - 5:00 PM (IST)

Questions Asked	Answers Given
What is the difference between frequent design change and changing design requirements? Also, what is the source of the % indicated?	Requirements mostly come via feedback channels or via customers while changing design could be from many internal factors like not feasible to produce or supplier suggest change in component if involved in design.
Should we also look at the manufacturing process before getting into manufacturing?	Yes that is what we call collaborative engineering where other departments can provide feedback during early stage of product rather than waiting for the turn.
Sir, what is the 'physics model' in the lifecycle?	Physical Model is - Detailed Engineering Model and Physics model is - Simulation Model e.g. based on Finite Element Method etc.
What is the name of the software you are using for the requirements management and systems modelling?	SAP Enterprise Product Development
Impact analysis should also include cost and existing installed base of this valve?	Yes Ofcourse, it was not shown in demo though
Can you please explain the cad basicis?	This is basically using Authoring tools like Catia, AutoDesk etc. where you create real 3D design. It can also be in ECAD for Electronic parts.
There is a software element in the product. How is that process managed?	What was shown in demo was relevant only consuming software type of items in structure. Managing Application Life Cycle of software is not focus here.
What is the Software you showcased in this demo?	SAP Enterprise Product Development. SAP S/4HANA

How is data integrity maintained through the product lifecycle? Is there interoperability capability with requirements management, CAD, V&V tools?	There are standard formats for visualization e.g. VDS and also for CAD depending on CAD vendors. We do have integration to all major CAD vendors via SAP ECTR to ensure smooth transition back and forth from CAD to ERP
If we wait till design is done and supplier feedback is done and then hand it over to manufacturing team I think it's too late... how to bring the voice of manufacturing, quality and product support team at early stage but driven through the system?	Yes that is what we call collaborative engineering where other departments can provide feedback during early stage of product rather than waiting for the turn.
Would you like to talk about Digital Twin with the valve example?	There are 2 terms Digital Twin and Digital Thread but that can be explained in another session
How do we ensure design change is successful?	Many Methods- Simulation, Physical Prototype and finally feedback from installed equipment and customer
In the Modern Product Management - How to manage the dynamic changing requirements which requires an Agile adoption inline with Business / User/ Consumer expectations/	That indeed a big challenge in Engineer to Order and Configure to Order plus scenarios. Collaboration and impact analysis is the key here
Is disposal of any product, part of PLM or not? Please explain with one example.	I think you mean by Decommissioning. This is a process in itself and require lot of regulatory process, not the main part here.
How the PDM/PLM connected to SAP & AI-ML in day to day operation of the engineering services organisation?	SAP is provider of cPDM solutions and also connects to other PLM systems. AI&ML is subject to usecases one of the example is learning from the feedback on a product and generate design proposals.
How significant the DevOps process in PDLC? Please elaborate.	For all cloud products DevOps is key to success.
How would be the test sample size before change product is released to market?	As stated based on Simulation and Physical prototype and sample, region etc. depend on other product strategy. This is not focus of PLM rather product strategy
Does SAP Enterprise Product Development tool has capability to allow iterative development process where any downstream users can send the task or design or issues back for rectification? Please detail out.	Yes, it is possible as we talk about closed loop feedback.
How secure is this Product life cycle can this is connected with the cloud technologies?	That is a generic question in today world but we see cloud is the way to go forward.

Which software we have used for Rajat's demo? Is that some SAP module? How is it useful?	SAP Enterprise Product Development and SAP S/4 HANA
How IOT data is made available in PLM system? How it is been utilized?	One of the example to get data from Sensors via IOT and analyze for it to gain insight if we need design change
How the azure can we used in this process?	Azure is hosting environment for us and can be used

