

SAP PLM – the basis for the Internet of Things!

From the digital product lifecycle to live business

Completely new possibilities for production companies are offered by the Internet of Things (IoT), which links digital and physical product worlds. The prerequisite for this is a digital product lifecycle with reliable data. The necessary basis is supplied by SAP PLM with the strategic integration platform SAP Engineering Control Center. SAP ECTR brings product data to the SAP system, ensures intelligent process support, and offers an intuitive, holistic user interface for all SAP objects in the PLM and IoT context.



Linking process-relevant PLM data

Product data and digital twins can be linked with other SAP objects – with documents of all kinds that SAP ECTR also integrates through an MS Office connection etc. Or also with business objects such as order, material, work plan, etc. as well as with CAM, warehouse and shop-floor data. The result: processes are automatically supplied with the latest product data. And relevant extra information is readily available in every SAP application, whether stationary or mobile, for authorized users: lifespan and material specifications, customer and supplier e-mails, spare part and ordering information, production documents and machine parameters, measurement and movement data of tools, operating and service documentation, etc.

With “Live Business”, SAP SE puts the mighty IoT potential in a nutshell: real-time processes on the basis of live data from the cloud, e.g. delivered by intelligent products. SAP systems provide ideal conditions because they combine data and processes in a business suite. Here, product-related data can be organized with SAP PLM as required and provided exactly right for processes. This works with maximum ease with SAP ECTR.

Integrating engineering data

Intelligent products consist mostly of components from mechanics, electrics/electronics, and software. SAP ECTR integrates product data of all engineering disciplines in SAP PLM: by means of a direct connection of authoring tools for MCAD, ECAD etc. Thus SAP functions such as the change service are seamlessly available in authoring tools. Moreover, engineering data can be used company-wide and consistently integrated in information models as well as business processes – including via neutral formats (2D/3D viewing).

Mapping intelligent products

In the intuitive SAP ECTR, product data including master data, structure data and metadata can be managed coherently. Also, digital and physical assets can very easily be linked: by means of equipment and functional location hierarchies. This results in a digital twin of the real product. It maps product components as well as configurations, physical parameters, or defined states. Thus it is a reference system for structurally assigning live operating data and interpreting it according to content, also automatically. The knowledge gained can be used directly for engineering, production, anticipatory maintenance, etc.

Implementing live business

Thanks to just one system for data and processes, inflowing live operating data can trigger automatic decisions and actions – in alignment with the stored data of the digital twin. Here too, SAP ECTR helps: with automation modules (add-ons) for the simple configuration of rule-based actions. What live business ultimately looks like is shown by the project of a medical technology company. Following successful PLM digitization, the implementation of the IoT is planned. Then, for example, insulin pumps can offer therapy monitoring, which informs patients immediately if anything goes wrong. Health-related warnings and predictions based on integrated GPS, weather and activity data are also planned.

And what are your use-case ideas? Just call or mail us.



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