

Conference programme

PDT Europe 2018

October 25, 2018 | Hotel Le Méridien
Stuttgart | Germany

Collaboration in the Engineering Supply Chain – the Extended Digital Thread



Co-located with CIMdata's
PLM Road Map EMEA

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WELCOME TO PDT EUROPE 2018

Collaboration in the Engineering and Manufacturing Supply Chain – the Extended Digital Thread and Smart Manufacturing.

Business is increasingly performed in networks. These can involve the supply chain, partners, joint ventures and customers. There are many reasons for networked business, such as global access to markets, access to skills, time to market and time to volume production. Sometimes the driver is access to data and information.

Many companies have transformed into system integrators with a majority of the end product created externally. The high level of complexity, number of partners and business speed are challenging the classic model of data exchange in a supply chain and sharing becomes more relevant. Sharing also resonates with the way we communicate in social media.

The dynamic and global market also calls out for smart manufacturing. Advanced information and manufacturing technologies are used to enable flexibility in physical processes. Smart manufacturing, industrial internet and industry 4.0 all make use and benefit from the rapid development in IT and communication.

The digital twin, digital thread and smart manufacturing have the potential to move the enterprise towards better performance, manageable cost, controlled risk and support for agile and future business. The vision is here but how about the details? How can we make best use of the cloud, industry 4.0, systems engineering, model based, IoT, additive printing, block-chain, edge computing etc. and what standards should be in focus?

PDT Europe 2018 will look into strategies, tactics and implementations moving towards the Networked Model Based Enterprise and Smart Manufacturing, the Extended Digital Thread, the anticipated and realized risks as well as business benefits.

Agenda PDT Europe 2018 | October 25

08.30-08.45	Opening of PDT Europe 2018 Welcome by the Organizers
08.45-09.30	<p>Model-based X: What is it and what is its status?</p> <p>There are so many overlapping definitions, i.e., Model-Based Engineering (MBE), Model-Based Enterprise (MBE), Model-Based Systems Engineering (MBSE), Model-Based Design (MBD), Model-Based Definition (MBD), etc. So, how do we make sense of it all? The alphabet soup of acronyms being used in industry today to define the digitalization of product related processes and information is confusing and becoming counterproductive as industries move towards the adoption of model-centric processes and enabling technologies. Many of these well-intentioned naming conventions originated from industry groups, as well as from government/DoD, often based on the specific interests and objectives of those organizations. This presentation will attempt to highlight the differences and overlap of these different viewpoints and discuss the challenges and standards-related opportunities, with an additional focus on industry status with regards to their adoption.</p> <p>Peter Bilello, President CIMdata, USA</p>
09.30-10.30	<p>Smart Manufacturing – 3 presentations:</p> <p>Smart Manufacturing using existing standards.</p> <p>Smart Manufacturing is a subpart of the new Smart Industry domain utilizing new Internet of Things (IoT) technologies. These technologies enable new processes in industry, new partnerships as well as larger customer involvement in all parts of the product's life cycle. This is based on intelligent devices, modern telecom and information standards.</p> <p>This presentation will discuss the need for information standards in Smart Manufacturing and the benefit of adopting already existing standard that are in use.</p> <p>Tor Arne Irgens, Managing Director MTIK, Norway</p> <p>TBD</p> <p>Prototyping Smart Manufacturing – a testbed project.</p> <p>The Smart Factory producing Smart Products using Smart Manufacturing technologies is the scope of the DigIn project in Sweden. It is a project funded by the Produktion2030 program under the leadership of KTH in Stock-holm involving Scania CV, Solme, Swerea and Eurostep. It demonstrates the possibilities to realize Smart Manufacturing using twittering bus communication and the ISO 10303-239 PLCS information standard.</p> <p>This presentation will show how a prototype is realized in the Scania Smart Factory environment where agile production processes are enabled using the Smart Manufacturing concepts.</p> <p>Gunilla Sivard, Professor KTH - Royal Institute of Technology , Sweden</p> <p>Hampus Wranér, Consultant Eurostep, Sweden</p>

10.30-11.00	BREAK IN THE EXHIBITION AREA
11.00-11.30	<p>Cross-Discipline Lifecycle Collaboration Forum – Setting up the digital thread across engineering and the value chain.</p> <p>Today’s challenge is to ensure efficient collaborative development processes within an organization and with the extended enterprise. Interdependencies between different engineering disciplines and with partners are increasing as products become smarter, more interconnected and feature complex yet individually configurable functions. For these increasingly complex products to function properly at affordable cost, real-time and cross-discipline coordination is a must.</p> <p>While collaboration works well and artefacts are linked within a given domain, the situation looks different across domains and company borders.</p> <p>This presentation is summarizing work performed since 2016 in the frame of the ProStep Ivip CDLC Forum with the contribution of OEMs, Tier1, software vendors and PLM experts.</p> <p>Peter Gerber, Chairman of CDLC Forum and Development Methods Leader Schaeffler, Germany</p> <p>Pierre Bodin, Senior Manager Mews Partners, Germany</p>
11.30-12.15	<p>A Digital Thread based on the PLCS standard. Why PLCS is a good fit for the MBEE (Model Based Extended Enterprise) and Systems Lifecycle Management.</p> <p>The PLCS standard (Product Life Cycle Support) was created to meet a stated need: <i>to keep the information needed to operate and maintain a product aligned with the changing product over its life cycle in a heterogeneous organization, process and system environment?</i> Today that information includes models of the products and systems concerned. The presentation will look at the original aims of PLCS, some of the cases where it is being used for data sharing and how suited PLCS is to supporting cross-organization through-life digital threads.</p> <p>The presentation will also look into the relationship with other standards such as STEP AP242 as well as how PLCS and implementation support Export Control and ITAR.</p> <p>Nigel Shaw, Managing Director Eurostep Limited, UK</p>
12.15-13.30	LUNCH
13.30-14.15	<p>Investing in Industry 4.0? Hard Realities of the Grand Vision.</p> <p>Industrie 4.0 delivers a beautifully stunning vision for the future of manufacturing companies. Yet, little of it is being fulfilled quickly. This presentation explores the reasons for that and how manufacturers must adopt “systems-of-systems” thinking to fulfill the Industrie 4.0 dream over the long term.</p> <p>Marc Halpern, VP Research Gartner, USA</p>
14.15-14.45	<p>How to deal with the incompatible future?</p> <p>Digital Transformation is everywhere today. It deals with the future but as a transformation process it also has to accommodate legacy information moving into future digital. In particular in the domain of PLM it is a challenge to deal with the incompatibility of current and future required data. This presentation will focus on lessons learned from the field and discuss data quality and data continuity (MBD/MBE as an example) combined with a "bimodal" approach.</p> <p>Jos Voskuil, PLM Consultant, coach & blogger The Netherlands</p>
14.45-15.00	BREAK IN THE EXHIBITION AREA
15.00-15.45	Panel discussion
15.45-16.00	Closing remark – End of PDT Europe 2018

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PDT Europe 2018 in collaboration with PLM Road Map EMEA 2018.

The must-attend event for PLM practitioners globally—providing independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the PLM industry germinate and take root.



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