

Abstract for ACHEMA '18

**O/O – Advantages of DEXPI**

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Industry 4.0 is bridging the gap between two worlds: The physical world of machines and material flows – and the digital world with bits and bytes. Building and constantly maintaining a digital representation of the physical assets is a big challenge. Over the past decades we have seen a transformation from paper based P&ID diagrams and plastic 3D models to digital drawings and models. The next evolution step is now intelligent digital data. The new normal is now that it is no longer necessary to be in the same room with the colleagues to redline and discuss a flow diagram. Digital drawings are not only graphical illustrations of the equipment but even include meta data and references coming from other engineering systems or enterprise tools like ERP. However, unfortunately it is still also normal that digital P&IDs are not compatible across software systems. For example, an engineering company or EPC could plan / design a plant in one software solution for P&IDs. The owner/operator of that plant most probably uses as a different software and thus cannot simply use the P&IDs. Converting the information between the software systems is usually not possible and it might sometimes even be required to completely redraw it. This means that that intelligent digital data has a limited lifespan and there is no guarantee that it will survive software changes and will be available to be used when again needed. Therefore it is paramount to apply the Industry 4.0 ideas of open data exchange also to P&IDs. DEXPI is providing an international standard that is applied by more and more software companies, owner/operators and EPCs. Representatives from several companies will share their vision of the future of collaboration in asset documentation. They will also show examples of how this can be applied in daily business.