New: Cideon Conify

Cideon at the Hannover Messe

From 17 to 21 April 2023

In Hall 11, booth E06

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**Integrated CAD-data in product configuration**

**Suppliers and mechanical engineering companies are constantly adapting their strategies and processes to digitalization. The need for increasingly more product individualization requires standardization and modularization. Cideon Conify supports quotation and order processing for multi-variant products. This involves integrating sales configurations, automated CAD data, engineering-to-order and BOMs.**

Gräfelfing, 20 February 2023: Interdisciplinary configuration in mechanical and plant engineering is becoming increasingly important to meet customer demand for individualized products at reasonable costs. It requires a high level of automation combined with close integration of all processes including order engineering. In large sectors of the industry, however, this is not yet standard practice for configurable products with engineering elements.

But a solution is available: Conify, developed by Cideon, part of the Friedhelm Loh Group. Conify automatically generates the configured product, a digital twin, as a CAD dataset and saves it in a PDM-compliant format. Engineering-to-order is then able to incorporate customized product adaptations at minimal additional effort. Order processing and production can then work with clear and consistent documentation, bill of materials and work plans. The result is a standardized, digital process, from sales to delivery, with maximum automation.

**Configuration for increased added value**

An integrated approach to managing multi-variant products must cover the entire value chain – from product development, sales and engineering through to final delivery. Each sub-process requires consistent data management – with no deviations or redundancies. The basis for achieving this is established during product development through systematic product standardization and modularization, together with incorporation in product configurators and CAD models. This is the starting point for all subsequent steps.

Data and systems can then be used by sales to generate competitive quotations, which can be augmented by visualizations, drawings and CAD models. Cideon Conify automatically generates CAD-neutral product data, usually in simplified overview format, using the available parametric CAD data. If an order is placed, this data will then become more detailed. When creating the order, detailed product assemblies are generated from the parametric data. This enables full part masters and bill of materials to be created for any specific variant, while ensuring precision reuse of historical parts and assemblies.

Modifications are usually required for specific orders, and engineering will be able to locate the CAD data pre-

generated by Cideon Conify in the PDM/PLM system. Further bill of material and article data result from this process step, which can then be used in company processes via standard interfaces. This is the basis for further value creation right up to the point of delivery.

**Open for integration**

Cideon's consultants support businesses to achieve consistent and integrated configuration processes. Discovery Workshops are held to identify potentials for optimization. Specific implementation plans can then be developed based on realistic demo models. These define ways for lean processing in multi-variant product engineering.

Cideon Conify's modular concept enables different systems to be integrated and can be extended. Sales configurators such as SAP and FDU (Autodesk) are currently supported. For CAD systems, Autodesk Inventor and SolidWorks from Dassault Systèmes are among those supported. In PDM, the focus is on Autodesk Vault and SAP ECTR, but other interfaces can also be implemented.

**Summary:**

Cideon Conify takes configuration processes to a new level. It significantly reduces project lead times from customer inquiry to order placement, increases quotation quality and reduces repetitive tasks from the outset.

Further information: [www.cideon.com/solutions/conify](http://www.cideon.com/solutions/conify)

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**Images**

Image 1 (fri23203000.jpg): Cideon Conify enables businesses to connect sales and engineering data and to automatically generate PDM-compliant CAD data.

Image 2 (dri23203100.jpg): Cideon Conify with a range of settings for individual CAD and PDM connectors for process applications.

Image 3 (dri23203200.jpg): Configuration data can be incorporated and processed in CAD systems (for example Autodesk Inventor).

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**CIDEON**

CIDEON advises and supports companies in optimizing their product development processes – from the initial concept through to engineering, production and services.

CIDEON is a system integrator and process consultant and thereby knows and understands the challenges faced by companies in digital transformation. CIDEON's innovative solutions ensure continuous data flow along process chains making data accessible and cost-effective throughout the company. In this way, CIDEON's customers can fully exploit the potential of digitalization to benefit themselves and their clients.

CIDEON uses the latest CAD/CAM and PDM/PLM software solutions as well as self-developed inhouse software. CIDEON is an Autodesk Platinum Partner for German speaking locations, an SAP Platinum Build Partner as well as a software partner to Dassault Systèmes and PROCAD.

CIDEON employs more than 300 staff at 14 locations in Germany and Austria and is part of the Friedhelm Loh Group. The family business operates successfully worldwide with more than 12 production facilities and over 95 subsidiaries. The Group includes companies such as Rittal, Eplan, Stahlo and LKH.

Further information can be found at www.cideon.com and [www.friedhelm-loh-group.com](http://www.friedhelm-loh-group.com).