

Siemens presents digitalization technology for the entire industrial value chain

- **At the Vietnam Industrial & Manufacturing Fair (VIMF) 2017 Siemens has showcased its typical digital solutions in the entire industrial value chain.**
- **With the theme “On the way to Industrie 4.0, Digitalization of the Entire Industrial Value Chain”, Siemens allowed visitors to explore in detail its range of automation and digitalization technologies across five processes, including Product Design, Production Planning, Production Engineering, Production Execution and Services.**

In the Product Design stage, the integration of CAD/CAM/CAE solutions with NX and Simcenter allowed visitors to have a holistic view of NX for design (NX CAD), NX for manufacturing (NX CAM) and Simcenter, which consists of offerings that include 3D simulation and 1D simulation. Besides, Siemens' Teamcenter software provides the industry with a leading collaboration platform throughout all steps of the value chain with one single data backbone.

In the Production Planning stage, visitors could experience a virtual validation of the production process through Tecnomatic and Teamcenter. Tecnomatic is the digital manufacturing solution from Siemens that helps end users make better decisions to increase productivity and quality while lowering cost.

For Production Engineering, Siemens displayed a full product portfolio across control and field levels. In the control level, SIMATIC PCS 7 Process Control System and Totally Integrated Automation (TIA) Portal framework for complete automation were showcased. In the field level, Siemens displayed highly efficient and integrated drives and motors packages such as the SINAMICS V20 Basic Converter, SINAMICS G120 Vector Drive and SINAMICS G120C Compact Vector Drive.

Besides motor management, control and protection systems were also introduced through SIMOCODE.

Furthermore, visitors also had an overview of how all of these products and software work hand-in-hand through a massive application-based demonstration from Germany. From the PCS 7 process control system to the SCADA WinCC system, this integrated demonstration boasts Siemens' full range of Digital Factory and Process Automation and Drives portfolio for the water and waste water industry. Through this presentation, Siemens showcased how customers could benefit from higher energy savings in their plants and telecontrol solutions with TIA Portal, where all components are linked through Industrial Ethernet, PROFINET and PROFIBUS DP.

In the Production Execution stage, Siemens introduced MES (Manufacturing Execution System) and MOM (Manufacturing Operation Management), that help end users to monitor and coordinate the entire production process. MOM is a holistic solution that provides full visibility into manufacturing processes in order to increase productivity.

Service was the final stage set up on-site. In this step, Siemens introduced the new concept of Digital Services to the market through the use of MindSphere – Siemens Cloud for Industry. MindSphere provides fast and accurate data collection to the cloud. Siemens' Digital Services include data recording, transmission and safe storage, and offer the framework for a development environment in which applications can be created swiftly.

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