ILLUSTRATING INDUSTRY 4.0 BASED ON A REAL-LIFE EXAMPLE

Application for the manufacturing industry

SUMMARY

Illustrate the application scenarios “Versatile Factory”, “Value-Based Service” and “Smart Product Development for Smart Production” based on a realistic example and show how Industry 4.0 connects the real and virtual worlds.

PARTNERS

Siemens
SAP
Festo
evosoft

CURRENT SITUATION

The four companies administering the Industry 4.0 platform have developed a realistic, physical demonstrator based on commercially available products and technologies to explain typical application scenarios of Industry 4.0 particularly to users from the manufacturing industry. This demonstrator was first presented to the public at large at the IT Summit 2015.

SOLUTION

The demonstrator combines a physical, highly flexible transport system (multi-carrier system developed by Siemens AG and Festo AG & Co. KG) with virtualized processing stations. Furthermore, movement and energy consumption data of the carriers is sent to a cloud platform for analysis.

INDUSTRY 4.0 FEATURES

Illustrate the merging of the real and digital worlds using the “Versatile Factory” application scenario

STANDARDIZATION APPROACHES

Application scenarios of the Industry 4.0 platform and application examples

REFERENCES

- Various workshops of the four companies administering the Industry 4.0 platform to discuss and select representative and realistic application scenarios
- Discuss the specific feasibility of the selected application scenarios with the evosoft test center
- Focus implementation on the “Versatile Factory” application scenario
  - Modular design allows the exchange of individual processing stations, illustrated in the virtual world
  - Transport in the real world adjusts automatically and independently
  - This allows a flexible operator response to market and customer requirements
- Develop a script for presentation as a “Chancellor Exhibit” at the IT Summit 2015

CONTACT

Dr. Ulrich Löwen
Siemens AG
ulrich.loewen@siemens.com

CONTACT

Dr. Ulrich Löwen
Siemens AG
ulrich.loewen@siemens.com

Nürnberg (visitable at short notice)