Title:

The WOAS project – A possible CPS Integration Platform

Content:

In 2011, the new R&D project "Architecture and Interface of a Web-oriented Automation System (WOAS)" was launched in the Competence Center Automation Duesseldorf (CCAD). The WOAS architecture allows the principles and methods from the standardized world of Internet technologies to be transferred into the world of industrial automation in a systematic and structured manner. A WOAS consists of a WOAS core as well as a configurable number of Web-oriented automation services stored in a cloud that implement the required automation functions. The workshop gives an overview about the project, presents the most important technical details of a WOAS system and describes the application of the results for the integration of CPS components with associated services (CPS – Cyber Physical System). The workshop contains following topics:

- Overview of the WOAS project
- Concept and Implementation
- Examples: Virtual Devices & Services
- Practical work in the Demo platform

In the practical hands-on part of the workshop the participants can test and look into the implementation of some WOAS examples for operation of a real assembly station in the Duesseldorf Telelaboratory. Moreover they can also work in the demo version of the WOAS integration platform and create a simple user-specific Remote Lab Experiment.

Duration of the workshop:

3 hours

Presenters:

Prof. Dr.-Ing. Reinhard Langmann
Laurid Meyer B.Eng.

Datum:	Absender:	Empfänger:
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