IMPLEMENTATION OF THE RAMI4.0 ADMINISTRATION SHELL

Application for manufacturing industry and logistics
Offering for Software & IT and automation

SUMMARY

Selected sensors from Pepperl+Fuchs are connected to the Asset Intelligence Network via a netIOT gateway from Hilscher.

INITIAL SITUATION

For Industrie 4.0 components, Plattform I4.0 has defined an administration shell that contains all data over the entire lifecycle of a component. Currently, data and information from components used in machines and systems is often not complete, not up-to-date and not in an electronically readable format. A predictive maintenance and service process requires data that is complete, up-to-date and electronically readable.

PROJECT DESCRIPTION

In joint workshops run by SAP, Hilscher and P+F, the content, its sources and the underlying standards are defined. The content is then represented in the AIN and provided via a web frontend. At the same time, Hilscher will implement an AIN connector in the gateway.

INDUSTRIE 4.0 – FEATURES

For the components used, an administration shell is implemented, which is automatically created and maintained. This enables asset management where the "as planned", "as installed" scenarios are represented consistently and reliably and the Industrie 4.0 aspect "end-to-end engineering" is implemented.

SOLUTION

Using SAP’s Asset Intelligence Network (AIN), an administration shell based on RAMI4.0 will be developed for Pepperl+Fuchs sensor products. Communication between sensors and AIN is via a netIOT gateway from Hilscher. The aim is to develop totally automated connectivity from the sensors, via the gateway, into the AIN, so that once connected the sensors are automatically registered in the AIN.

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STANDARDIZATION APPROACHES

The following standards are used: eCl@ss, IO-Link (IEC 61131-9), Profinet (IEC 61158, IEC 61784-2). Specifically, the catalog data taken from eCl@ss has proved to be incomplete and will have to be expanded.

PARTNERS

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