s-net® »DProdLog«
WITH SMART CONTAINERS TO THE DIGITIZATION OF LOGISTICS

The digitization demands from logistics service providers new technologies to offer their clients a digital solution in the logistics or value-chains. In order to avoid error-prone collection and control activities, as well as high safety stocks in the container cycles, data about the filling level and position of a container can be analyzed with the help of the research project “DProdLog” with the introduction of a digitized, open service platform for production-related logistics services.

s-net® – Daten lösen Services aus –Data release services

A modular service platform for production logistics service providers are developed in the project “DProdLog“ to make the logistics process transparent. Containers which are equipped with the wireless sensor technology s-net® are forming a Cyber-physical system. This system communicates autonomously with the cloud-based service platform, which collects and interprets the data of the smart containers.

The Fraunhofer Institute for Integrated Circuits IIS and its working team for Supply Chain Services SCS is working on the development, practice integration and economic utilization analysis of the intelligent s-net®-containers for Kanban-processes. The integration and preparation of the data for the service platform is thereby conducted by the Fraunhofer SCS.
Digital container management for more customer benefits

The load carriers provide necessary information about the filling level and position on the basis of the s-net®-sensor network technology in order to generate automatically logistics services in the next step. This way, logistics service providers can monitor better, plan accurately and manage selectively their collecting and control processes as the delivery of parts, the evaluation of the current stock or follow-up processes.

Smart containers, equipped with the wireless sensor technology s-net® communicate autonomously with the open service platform. The load carriers indicate how much they contain and where they are located.

Research project “DProdLog”

“DProdLog” is sponsored within the framework of the BMBF-program “Service innovation through digitization“. The duration is from 12/2015 until 03/2019. The Fraunhofer Institute for Integrated Circuits and its working team for Supply Chain Services SCS under the direction of the IT-service provider for logistics EURO-LOG AG are involved in the research project. Further partners are the University of Bamberg, the Böllhoff GmbG and the GS Frachtlogistik.