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Parcel Data Hub

Central platform to break up data silos

The challenge

Seamless item flow and optimized operations in parcel sorting facilities can only be achieved if bottlenecks and disruptions are counteracted immediately. The answer lies in real time data availability as the basis for data analytics: Innumerable individual pieces of information about items, assets and operations are available as data sets, which are supplied by various sorting equipment systems.

However, most sorting centers include assets from different suppliers with several different IT systems. These data silos and the missing real time availability prevent sorting centers from operating at optimum.

Our solution

Parcel Data Hub is a central platform that integrates various data sets from parcel sorting centers – for reliable information exchange between systems. It breaks up data silos and provides comprehensive semantic data models as a basis for high process transparency.
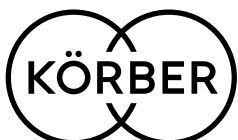
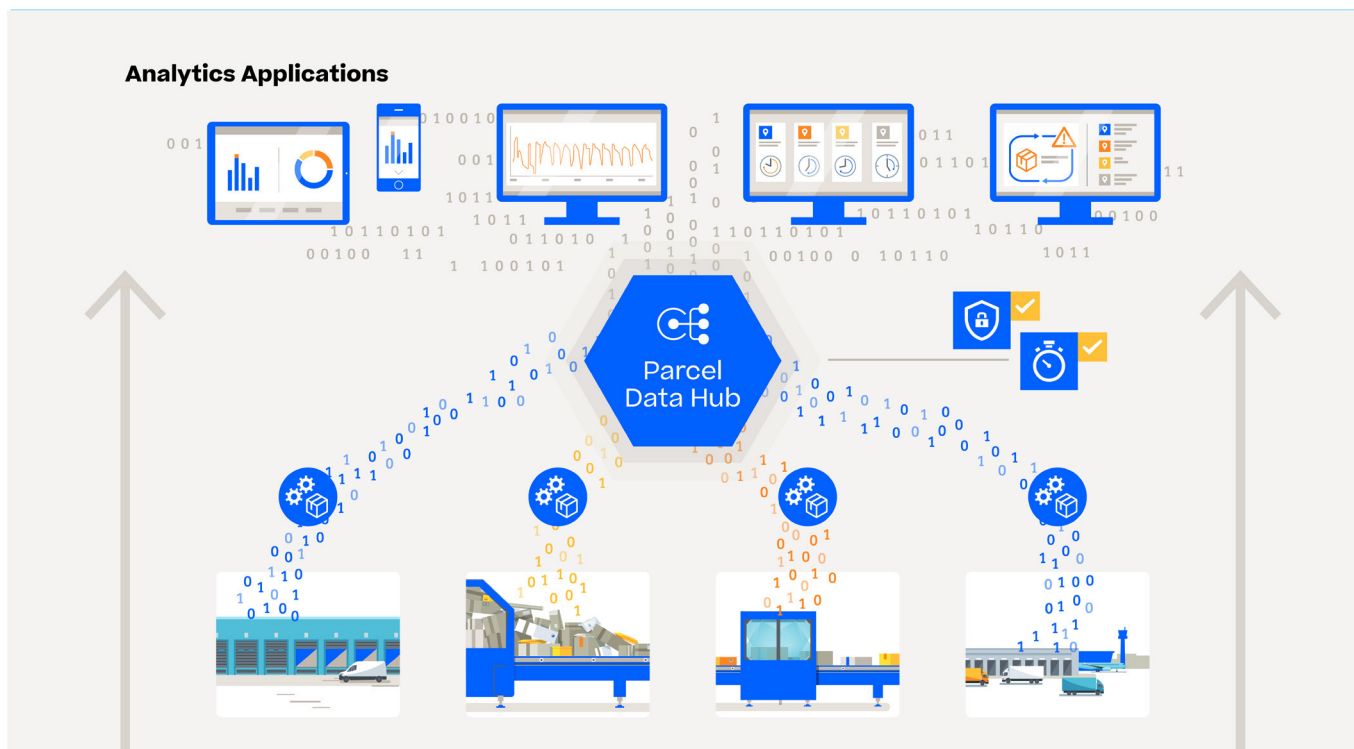Parcel Data Hub centralizes, indices and homogenizes the data – all in real time. Data from each relevant system are onboarded, integrated, and shared with all data processing systems and analytics applications and can be saved for extended periods to support Machine Learning. The platform can process data generated by our sorting systems as well as those from other manufacturers.

By providing standardized semantic data models in an open environment, clients are enabled to connect any kind of analytical function from any source.

Customer benefits

- Benefit from a single point of truth on the condition of each parcel and asset in your network

- Base for decision-making processes on comprehensive real-time and historic data

- Perform extensive audits thanks to a complete history of every item processed

- Perform analysis and optimization without compromising operational control elements

- Implement Parcel Data Hub quickly and easily thanks to open interfaces and a microservice architecture

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Technical features

- Modern and future-proof interfaces for data acquisition and access

- State-of-the-art protocols between interfaces

- Stream processing and non-relational database

- Individual access rights management via custom users and roles

- Short- to long-term storage

Functional features

- Proven technology stack ensures the highest data security standards while maximizing availability and optimizing IT costs

- Single point of truth by correlating and setting data fragments from any source into context and combining data to serve business applications

- Data standardization to easily combine, compare and process data from diverse sources and to provide access to a reliable pool of normalized data

- Loose coupling concept to minimize integration efforts and reduce direct connections between data sources and applications

Use cases

Any software solution by any supplier can benefit from the data stored in Parcel Data Hub.

This includes:

- Hub Booster, which helps operate sorting facilities as efficiently as possible by predicting potential operational issues and avoiding recirculations and blockages

- Network Booster, which enables an improved overall network performance by quickly identifying operational irregularities in any sorting center, such as looping parcels

- Predictive Maintenance, which enables earliest interventions by technicians to reduce risc of machine failure with operational impact