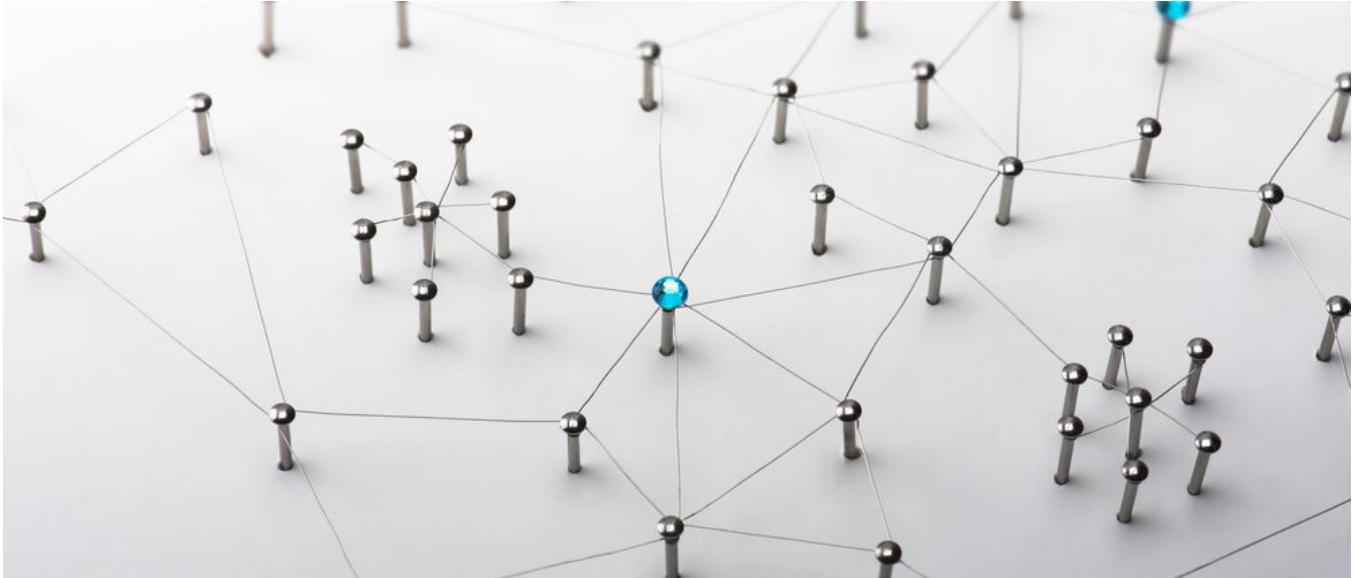K.Optimize AI

Network Booster

Real-time data analytics to optimize network performance

The challenge

The continuing boom in e-commerce is creating growing parcel flows worldwide, which puts distribution networks under intense pressure. Delayed or mishandled items are a major concern for parcel service providers, who have to comply with strict service level agreements. Communication and information exchange between sorting centers is crucial to achieve operational excellence.

Our solution

Network Booster creates transparency across a parcel distribution network. The software enables to quickly identify operational irregularities in any sorting center, localize bottlenecks, and respond rapidly to reduce negative impacts on overall network performance.
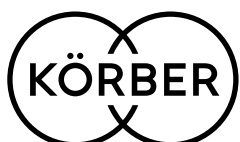
It provides data-driven, real-time analytics and visualization of network performance by

- Observing parcel duration times in each connected sorting center

- Identifying items looping between hubs and providing information for their automatic interception

- Monitoring the throughput performance of each connected sorting center

Customer benefits

- Improved network performance: High-end analytics and visualization of performance data

- Full monitoring and recording of network parcel flows 24/7

- In-depth analysis of KPIs for each parcel hub

- Reduction by up to 80% of unnecessary sorting and transport costs caused by recirculations

- Increased compliance with service level agreements for reduced noncompliance costs

KÖRBER

Network Booster – In-depth analytics to optimize network performance

Functional features

- Proven technology stacks and service concepts ensure the highest data security standards while maximizing availability and optimizing IT operational costs

- A single point of truth by correlating and setting data fragments from any source into context

- Data normalization to easily combine, compare and process network operations data from different sources

- A loose coupling concept minimizes integration efforts and reduces direct connections between data sources and applications

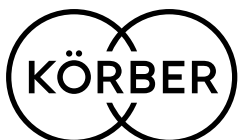## Prerequisites for installation

- Network Booster to be installed on centralized server structures

- User access to the network system via a Web browser

- WAN connection to local data sources

Modern software architecture

The analytics technology platform is based on a modern, cloud-native software architecture consisting of off-the-shelf software components. Therefore, the system is highly scalable and reliable.

Security is ensured by applying

- secured data exchange based on standard security protocols

- "Security by Design" development processes