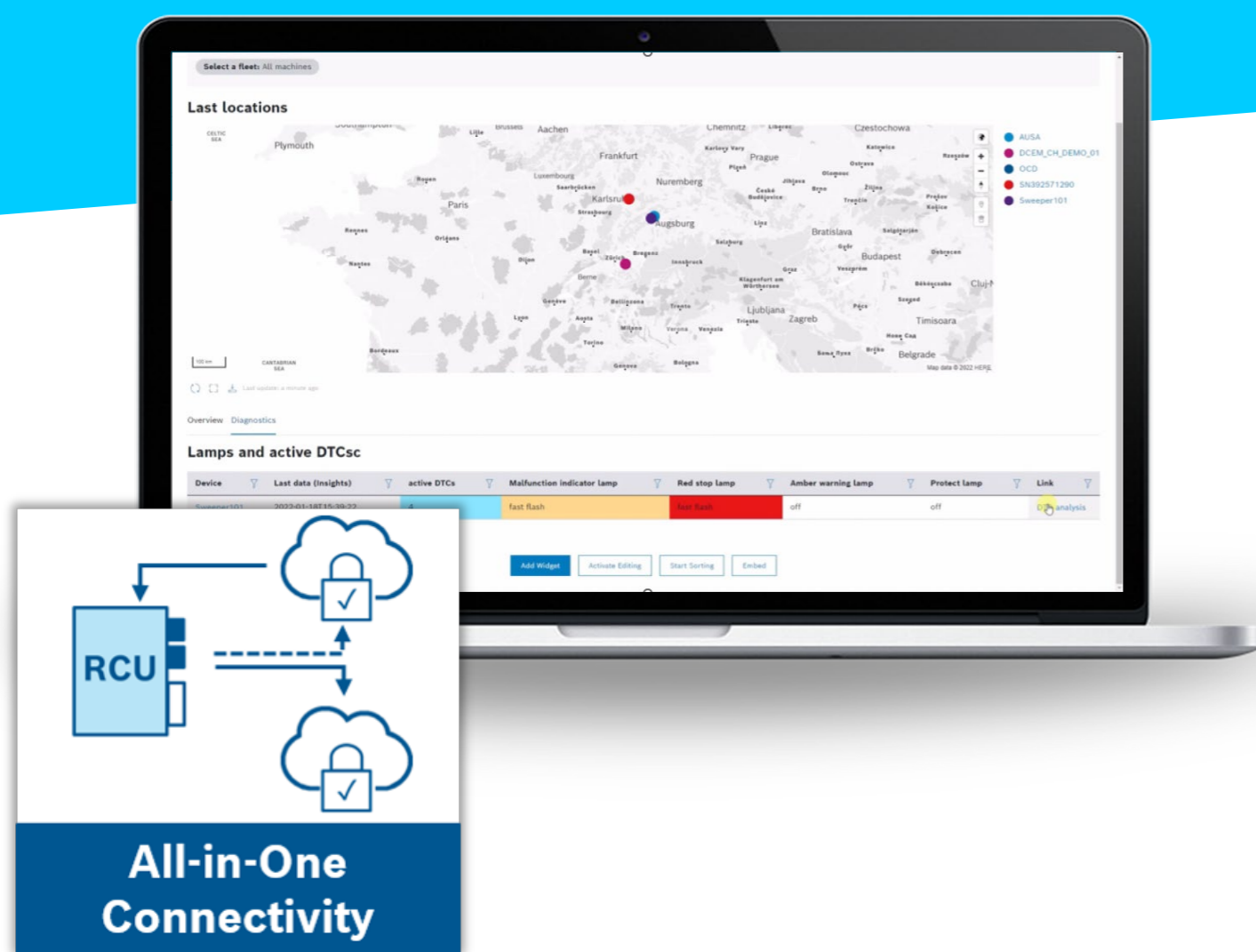


BODAS Connect – All-in-one Connectivity

End-to-end IoT solution for off-highway machinery



As the off-highway vehicles market continues to further undergo digital transformation, cloud-based solutions that enable the electronic control of hydraulic and electric drives offer numerous benefits for customers. Bosch Rexroth is at the forefront of this development. As a strong industry partner and solutions provider, we leverage our in-depth applications know-how and broad-based BODAS software and hardware portfolio to provide customers with a unique integrated IoT solution – BODAS Connect All-in-one Connectivity. In addition to data management features for fleet management and condition monitoring, the solution offers a variety of options for wirelessly interacting with the controller networks of off-highway vehicles. Interactions include flashing, parameterization and diagnoses of Rexroth controllers.

CUSTOMER BENEFITS

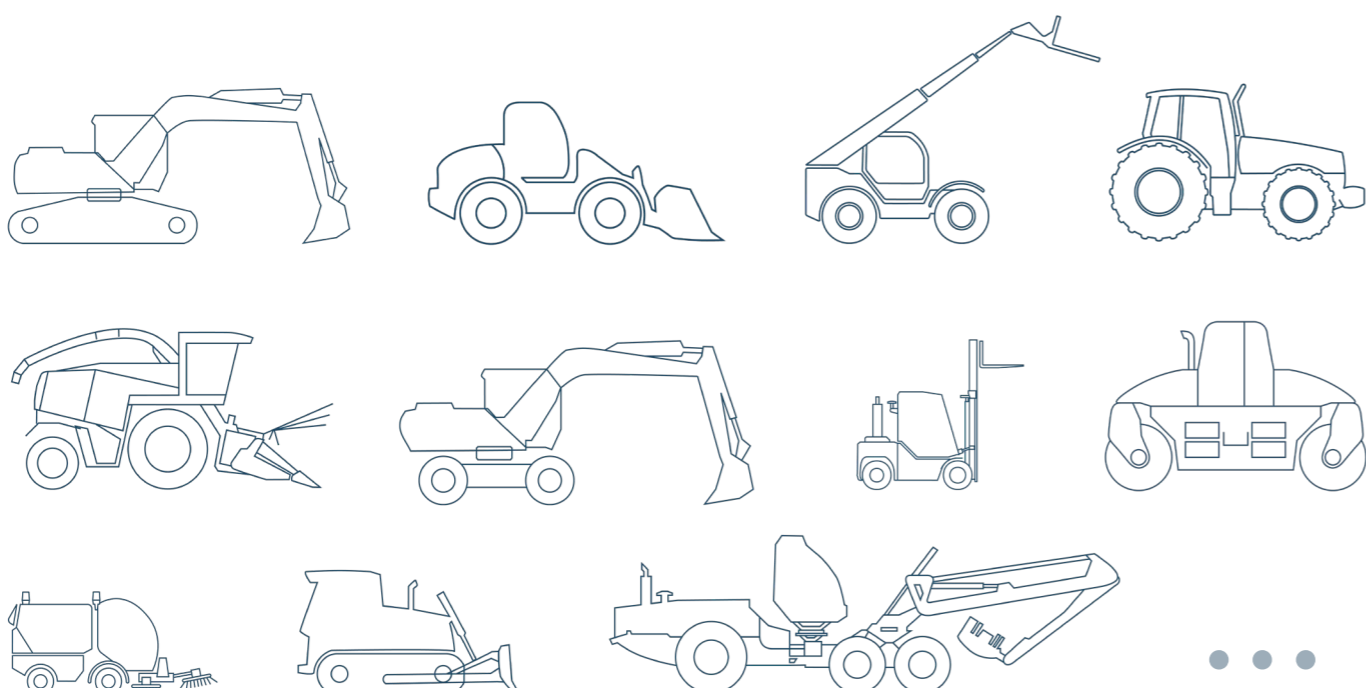
- End-to-end connectivity solution: Device Connectivity + Data management functions
- Ever-growing service portfolio for fleet management and condition monitoring
- Create custom dashboards with your own look and feel
- Condition monitoring provided by application specialists
- Scalable, cloud-based and industry proven data management
- Customization and adaptability of data portal

FUNCTION AND BENEFITS

End-to-end connectivity solution: Device Connectivity + Data management functions

BODAS Connect All-in-one Connectivity extends the functions of BODAS Connect Device Connectivity with industry-proven data management services. Based on the BOSCH IoT Suite with over 10 million connected vehicles, this fully integrated IoT solution for mobile machinery handles, processes and stores data obtained from Rexroth Connectivity Units (RCU). It provides an ever-growing variety of off-the-shelf fleet management and condition monitoring services. Our REST-API and MATLAB interfaces as well as our customizable front end, Bosch IoT Insights, offer even more data analysis options.

APPLICATIONS



Create custom dashboards with your own look and feel

What's even better, Bosch IoT Insights enables white labeling. Customers can create dashboards with their own look and feel. This enables OEMs and fleet owners to resell BODAS Connect All-in-one Connectivity to end users, thereby capitalizing on the IoT solution with entirely new business models of their own.

TECHNICAL DATA

All-in-One Connectivity

Subscription model Monthly

Rexroth Connectivity Unit

RCUx-x/xx Variants according to RE95430

Device Software and Device management

RE95406 Device Software and container-based Device Management according to **Device Connectivity**

Data Management

Backend Industry-proven data management in cooperation with BOSCH

Functionalities Off-the-Shelf available

- Fleet Management
- Condition Monitoring
- Interfaces (AEMP2.0, Matlab, ...)
- Long-term statistics
- ECU diagnostics (DM1 acc. to J1939)
- Role management and sub-fleets

Processing Custom Processing Pipelines allow implementation of individual processing algorithms in Java, Python, Java Script, ...

Frontend Customizable widgets with options of configuration to further extend off-the-shelf functionalities

Data sheet RE95407

Condition monitoring provided by application specialists

With years of applications experience for off-highway machines, Bosch Rexroth is in a unique position to offer unmatched solutions. These include monitoring functions that deliver insightful data to better understand service claims in the field and to improve system layouts to develop next generation machines.

Scalable, cloud-based and industry proven data management

BODAS Connect All-in-one Connectivity uses the BOSCH IoT Suite as a back end. This industry-proven, cloud-based solution is scalable and can be adapted to a wide range of individual needs. All-in-one Connectivity includes off-the-shelf functionalities from Fleet Management, Condition Monitoring, and Interfaces (like AEMP2.0) and allows to actively manage user roles for access and sub-fleets.

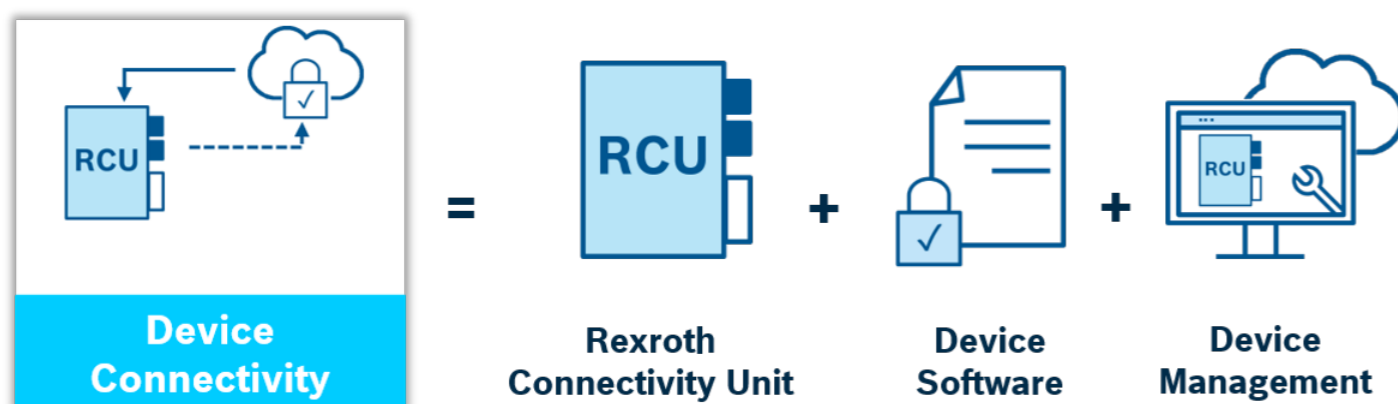
Customization and adaptability of data portal

Bosch IoT Insights, for example, allows users to flexibly change plots, graphs and widgets with little to no programming efforts. On a deeper level, custom processing pipelines allow users to implement their own algorithms in various programming languages like Java, Python and Java Script.

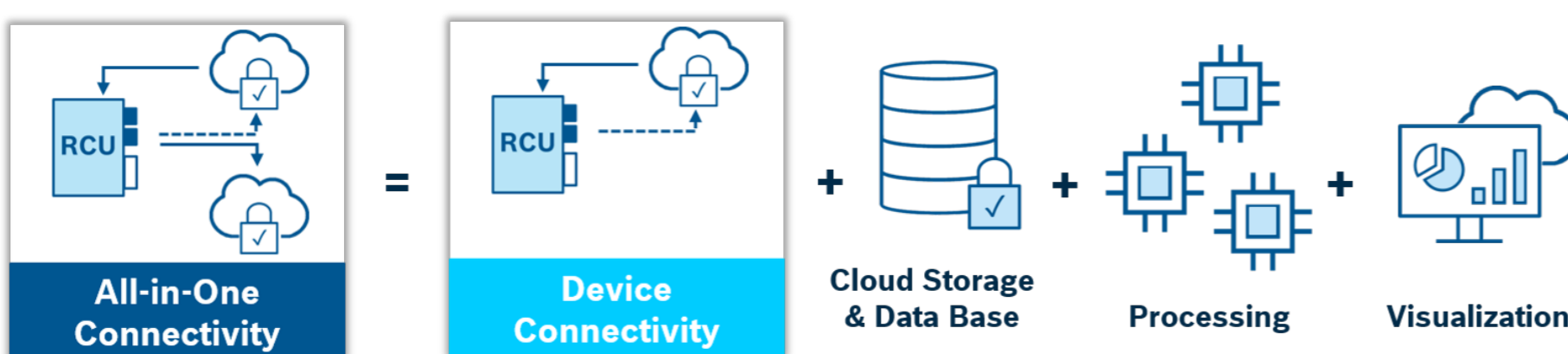
All-in-One Connectivity – getting started

Contact your Bosch Rexroth sales representative to get your desired RCU delivered (available in various performance classes & configurations). Only a few clicks and you are ready to connect your machine and operate your RCU online.

- Start small with a handful of devices; scale seamlessly anytime to millions of machines
- No vendor lock-in; unsubscribe anytime



BODAS Connect – Device Connectivity



BODAS Connect – All-in-One Connectivity