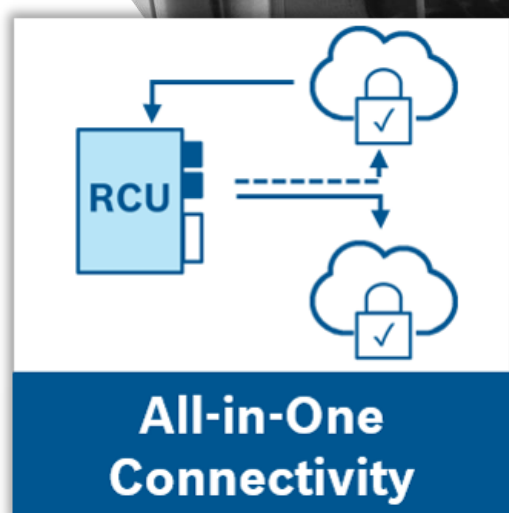


BODAS Connect – All-in-one Connectivity

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 front ends with customizable look and feel
- Condition monitoring provided by application specialists
- Scalable, cloud-based and industry proven data management

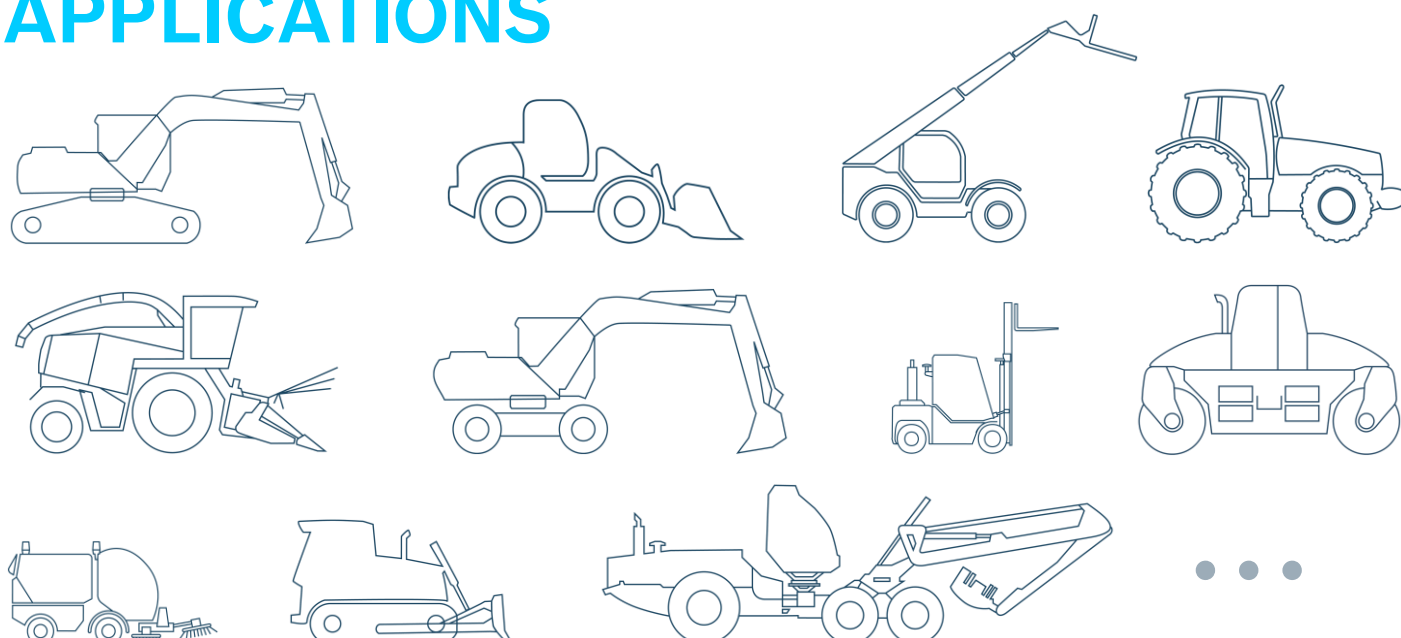
FUNCTION AND BENEFITS

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

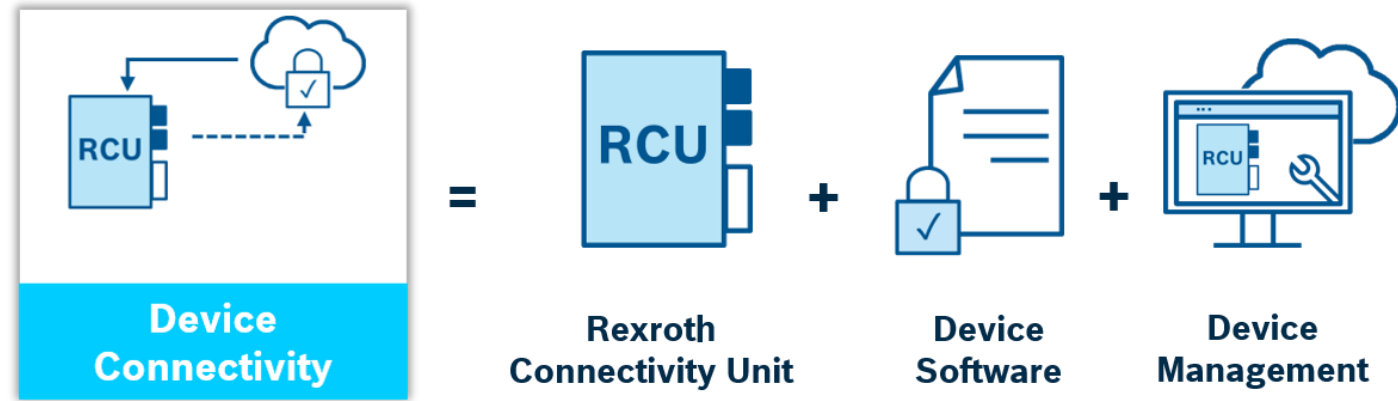


Create custom front ends with your own look and feel

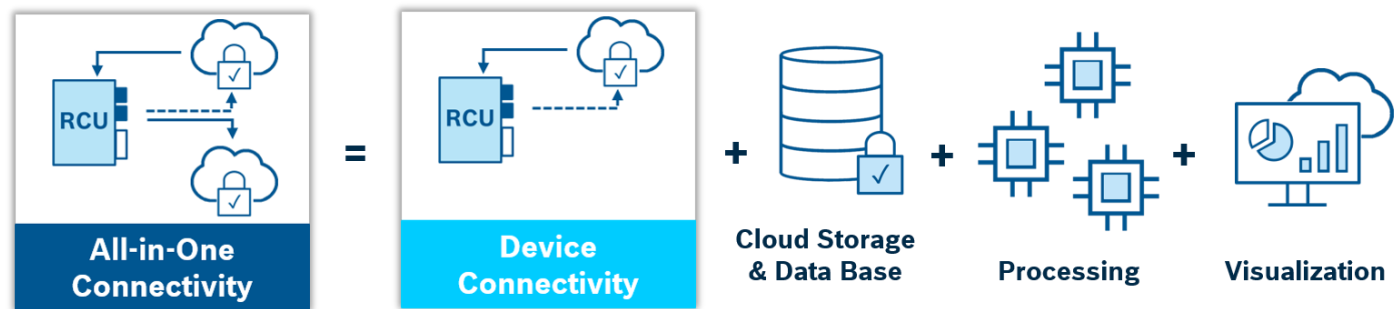
What's even better, Bosch IoT Insights enables white labeling. Customers can create front ends with their own look and feel. This enables OEMs and fleet owners to resell BODAS Connect All-in-one Connectivity to end users, thereby capitalizing on the IoT solution with entirely new business models of their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

TECHNICAL DATA

Starter Kit	2GO	2Start	2Run
Operational time [months]	2	6	up to 6
Connectable vehicles	1	up to 20	up to 10
Number of CAN-tracing channels	1	up to 3	up to 3
Individually configurable CAN signals	no	yes	yes
Data Management services			
CAN signal visualization	●		●
Vehicle tracking view	●		●
Data storage	●		●
Device Management (RCU)			
Device Software	●	●	●
Device Software configurable		●	●
SOTA: RCU software update over the air		●	●
BODAS Service Remote (RC)			
Parametrization over the air		●	●
Firmware update over the air		●	●
Read and write error information		●	●



BODAS Connect – Device Connectivity



BODAS Connect – All-in-One Connectivity

Condition monitoring provided by application specialists

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

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. Bosch IoT Insights, for example, allows users to flexibly change plots, graphs and widgets with little to no programming.

All-in-One Connectivity – getting started

We offer three preconfigured BODAS Connect starter kits to correspond with customers’ needs and preexisting experience. To lower entry barriers, customers benefit from 100% cost control. Rexroth Connectivity Units in various performance classes form the hardware basis. Three device management packages as well as a broad range of data management options and field-tested features are also available. For further information, please contact your sales interface.

EXPLORE MORE



All-in-One Connectivity