CASE STUDY

In collaboration with Device Insight, we were able to set up our job data management exactly the way we envisioned it. The system guarantees seamless data transfer between our agricultural machines and the farmer’s PC software. Our customers’ response to features such as streamlined options for applying inputs in an optimized fashion, working documentation, and the transmission of waylines and field boundaries for lane guidance, have been overwhelmingly positive. In addition to Fendt, we are therefore also linking other group brands, such as Massey Ferguson, Challenger und Valtra to the CENTERSIGHT® IoT platform. We are also planning to add smartphone apps for digital data exchange soon.

Christoph Zecha, Product Manager Global Fuse, Machine Data & Connectivity, AGCO GmbH

GRANULAR DATA MANAGEMENT USING A CLOUD SERVICE WITH CENTERSIGHT®

DIGITAL TECHNOLOGY IS REVOLUTIONIZING MODERN FARMING OPERATIONS

Digitalization is making inroads into agriculture. For instance, technology makes it possible to track the amount of fertilizer applied down to the exact kilogram. Agricultural machinery manufacturer AGCO/Fendt is offering a proprietary electronic documentation system called VarioDoc Pro. An external Cloud service provided by Munich-based IT specialists Device Insight takes care of data exchange between agricultural machinery and crop field records.

STARTING POINT
Developments in the digital space are leaving their mark on agriculture. Both crop farming and livestock farming are being tracked and analyzed ever more closely, which helps to make them more cost efficient. But this also places higher demands on data management in agricultural enterprises. Digitally capturing and processing data helps manage, control, optimize and automate agricultural production processes, which is why AGCO/ Fendt, a well-known German manufacturer of agricultural machinery, offers a range of highly innovative digital products.

GOALS
The goal of the joint solution is to provide a modern job data management system which allows daily work processes to be planned and automated while leading to a more efficient use of working time, fertilizer and machinery. The focus lies on achieving sustainable cost savings and simplifying the planning of field operations.

In addition, the system is designed to provide accurate documentation to assist farmers in complying with all legal requirements. This helps avoid having to manually enter annual reporting data.

COMPANY
AGCO GmbH

SECTOR
Agricultural technology

STAFF
6,331 throughout Germany (2015)

IoT-PLATTFORM
CENTERSIGHT® by Device Insight

IoT-FUNCTIONS
→ Software-as-a-Service
→ Device Management
→ Data transfer
→ Data storage
→ Data processing
→ Monitoring
→ Reporting
→ Visualization
**SOLUTION**

Granular data management thanks to Cloud service by Device Insight

The flexible CENTERSIGHT® IoT platform was integrated into the Fendt infrastructure as an independent Cloud service. Job data from Fendt’s VarioDoc Pro documentation system is transmitted from the tractor terminal to the IoT platform and from there to the respective field records via the cellular data network. The data is based on the ISOBUS standard (ISO11783) and includes tractor speed, fuel consumption, the position of front and rear power lifts, the GPS position, and accessory equipment data.

CENTERSIGHT® processes the information and makes it available for downstream processes. After transmission, the information is deleted from the IoT platform for reasons of data privacy.

**ADVANTAGES AND BENEFITS**

The accurate documentation allows farmers to comply with all legal requirements. When their operations are audited, they have to prove which seed, fertilizer etc. they applied and in which quantities. Should the inspectors find that thresholds for nitrogen fertilizers have been exceeded, for example, fines may be imposed. VarioDoc Pro, in connection with the CENTERSIGHT® IoT platform, makes it easier for medium-sized and large operations in particular to provide the required information, which over half of German farmers are still capturing laboriously with pen and paper. The field and machine data also provides a solid decision-making basis for optimizing accounting, work scheduling and fuel consumption.

**BENEFITS AT A GLANCE**

- Enables reliable data exchange
- Links agricultural machines to documentation systems
- Provides modern device and job data management
- Facilitates rapid position feedback
- Offers clean data visualization in field records
- Based on a reliable Cloud service

For more information: [www.device-insight.com](http://www.device-insight.com)

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**ABOUT DEVICE INSIGHT**

Founded in 2003, Device Insight GmbH is a leading provider of Internet of Things platforms. The CENTERSIGHT® IoT platform is the company’s flagship product. It supports the global networking of machines, vehicles, facilities and devices in delivering functions including data acquisition, data analytics, reporting, remote services and alerting. Device Insight works in more than 15 countries worldwide with large enterprises and mid-size customers from various sectors, including machinery and plant engineering, HVAC, commercial vehicles, vending, transport, energy as well as the Connected Home sector.

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