



The mobile app for maintenance and inspection of wind turbines

The demand for the operational readiness of wind turbines increases, as well as the requirements for efficient and uniform inspections and reporting. For this reason, Lufthansa Industry Solutions created Windpulse®, an application that streamlines the maintenance and quality of the process.

Windpulse® inspection tool

The optimal solution for service processes with:

- Mobile service app
- Back-office web app
- IoT platform (cloud)

Your business benefits

- Optimization of own processes
- Cost reduction across the entire value chain
- Shorter service lead time
- Efficient use of resources
- Information platform
- Sustainability and quality management
- Documentation availability
- Process and detection safety



Access all the information on the go

The combination of mobile devices with new technologies makes the work of service technicians and inspectors immensely easier.

The inspection tool bundles all necessary documents for the service, maintenance or even inspection (including datasheets, reports and work instructions). This means that the latest information on the respective order is available electronically at any time.

Order data can be edited and documented on-site via tablet or smartphone. In addition, the documents are backed up on the cloud platform so that all parties involved in the process can quickly access the necessary information at any time. On one hand, inspections can be much leaner; on the other, the response rate increases in case of problems.

Faster problem solving through transparency

In addition to the mobile approach, the back office solution is another element of the inspection tool. The information collected on the mobile app flows directly into the back office, so that workers can see the results of the on-site service team in real time. For example, in the case of short-term problems, this transparency provides quick response for technicians with important information, allowing to eliminate faults. Thanks to the back-office application, the preparation of work assignments is also simpler: the employees can bundle all necessary data for the maintenance task and make it available to the service teams via app.

As part of a new maintenance concept, Lufthansa Industry Solutions helps all stakeholders streamline their processes with state of the art solutions. This leads to a greater process reliability, in addition to a more efficient workflow and savings.

Features

- **The new standard**

Whether structural logic & labeling of the VGB RDS-PP T32 guideline, or standardization according to FGW TR7 (D2/D3), everything can be mapped.

- **BYOD – Bring Your Own Device**

Suitable for tablet and smartphone (currently iOS).

- **Individual settings**

Mobile devices can be configured centrally and individually for employees.

- **Use in offline mode**

All service processes can be edited offline and be subsequently synchronized.

- **Individual user and device recognition**

Access rights to order and master data can be set individually for each employee or user group.

- **Order data**

From the office or on the road the employee already has all the important order data on his mobile device.

- **Object data**

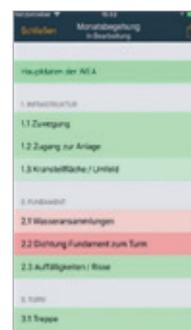
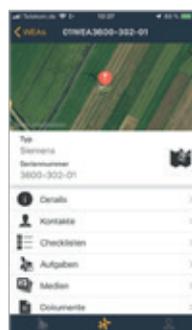
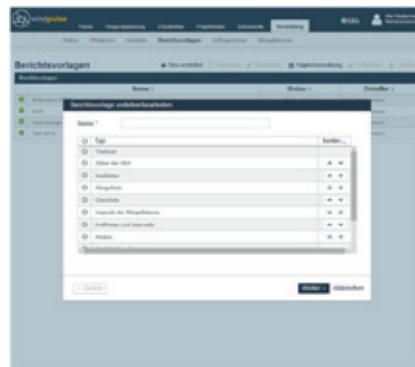
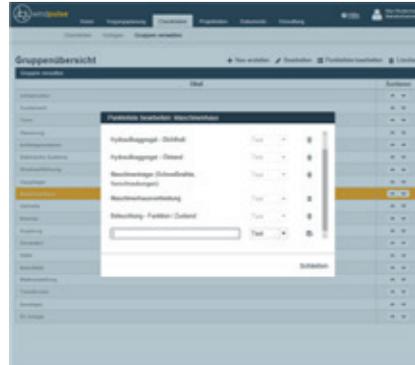
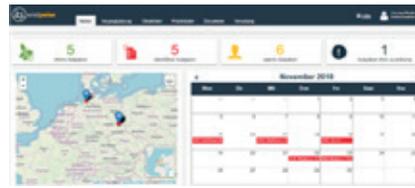
Data about the wind farm, wind turbines, assemblies, devices (such as: site specifics, exact location determination, grid connection point or required aids), are available for retrieval at any time.

- **Checklists**

For each order, users can create checklists where they define which tasks are to be performed. These can also be simultaneously edited by several employees.

- **Simple data transfer**

Photos, media and documents can be exchanged between the mobile service app and the back-office solution, as well as between the ERP/CRM system.



- **Project data**

The project data can be imported from wind ERP systems into the back-office solution via a standard interface. Initial recording and maintenance are also available in the solution.

- **Customizable reports**

Define to your convenience customer evaluations, checklists and orders. Contents and layouts of the checklists and reports are also dynamically adaptable. Data is stored in the customer's cloud and can be used for further evaluations.

- **Photos, media and other documents**

Photos, media and documents can be exchanged between the back-office solution, the mobile service app and third-party systems. Internal sales employees have the option of assigning in advance the attachments required for order processing.

- **Appointment tracking and of open transaction planning**

With workflow-based functions, the respective tasks are assigned to the proper employee at the right time or distributed to the appropriate business partners. This results in efficient support from order intake to commercial completion.

- **User and role management**

Authorization role management determines which data users can access. Users can be flexibly assigned in groups by role (administrator, user).