

MindSphere Open Space Challenge

Case Specification

Company

Rittal GmbH & Co. KG

Company Details

Industry	Electrical engineering, IT infrastructure System provider for innovative products in the fields of electronic enclosures, power distribution, climate control and IT infrastructure. All solutions are supplemented with extensive software tools and world-wide service.
Size (empl. / turnover)	Approximately 10,000 empl. – 2.2 Bn Euro
Main Products, Innovations	Blue e+ electronic enclosure cooling devices, IT infrastructure solutions
Customer structure	Production plants, data centre operations, machine construction engineering, switch gear engineering

Case Title

Smart Maintenance of Cooling Devices for Electronic Enclosures

User Story

As the user / customer, my goal is to lower any downtimes by requiring high transparency of device conditions via all the installed devices and optimized maintenance processes (recommendations for preventive and predictive maintenance).

As the technician executing the services I would like a central planning option for upcoming service calls on defective devices and thus being able to ensure availability of the correct spare parts and a high first-time-fix rate.

Problem Description

What are the problems you need to address?

There is currently no solution available for data-based services like asset management, efficiency reports, and remote condition monitoring for Rittal products.

How is the problem currently handled?

All existing applications currently require access to the devices on site. There are some applications that are tailored to access individual devices. Currently there is no application available that enables the management of multiple devices. Therefore, no user options exist yet for cross-device evaluations, aggregated data visualisation and recommendations for actions derived from them. The use cases of "Asset Management" and "Remote Condition Monitoring" are currently not available as service offerings.

Who is affected by the problem?

All end users of Rittal products and the Rittal After Sales Service, including the service technician

How critical are these topics to you and your customers?

Rittal is an infrastructure supplier and will therefore not implement a platform of their own. Therefore a central application is to be provided with MindSphere so that the safety structure of MindSphere can be utilised. Furthermore, the acceptance of data provisioning is to be facilitated with the implementation of the Siemens MindSphere.

With the realization of the Use Cases Smart Maintenance the plant operators are able to ensure their machine availability, keep the production process running, and lower the long-term cost through optimized maintenance.

Technical Provision

Type of machinery / plants?

Electronic enclosure cooling devices / Blue e+

Questions?

MindSphere Forum

<https://www.mindsphere.io/community/>