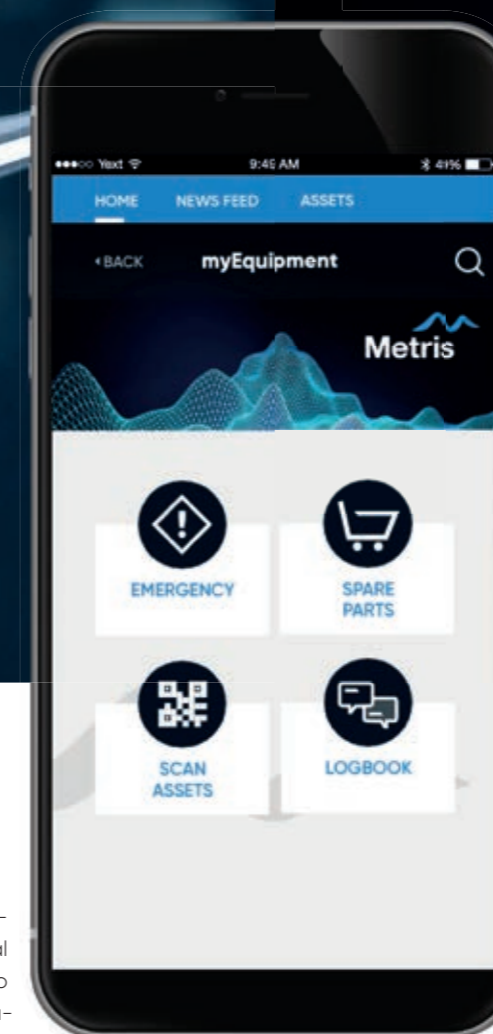


INFORMATION IN THE PALM OF YOUR HAND

Big Data competence
integrated in mobile solutions
by ANDRITZ

Metris OPP mobile apps –
myEquipment for operation
support



Mobile capabilities of the Metris Platform can be scaled to the information needs of each customer.

It wasn't that long ago that laptops and emails gave engineers, supervisors, and technicians freedom from having to sit in front of a DCS screen in order to monitor a mill's processes or access key data. Freedom at last!

But, the idea of sitting at a desk and waiting for a laptop to fire up is "old school" now. Instant-on smartphones or tablets are "new school" tools that are changing the way workers get their jobs done.

MOBILE AS A STRATEGY

PwC Global's 21st annual survey of CEOs drove home this mobile trend. The survey found that 81% of CEOs from 77 countries see mobile technologies as being strategically important for their companies. Nearly 90% said that a clear vision of how digital technologies, including mobile, can create competitive advantage is key to the success of their investments.

ANDRITZ's contribution to this mobile information delivery comes in the form of its flagship product, Metris OPP (Optimization of Process Performance). With OPP, the vast amount of data generated by mill sensors and control systems is a valuable "raw material" for optimization. OPP looks for data interrelationships and patterns that a human being with a spreadsheet would need years to uncover. Then, intelligent algorithms create control models to exploit these patterns.

Developers of the Metris Platform are creating an increasing number of mobile applications (apps) that address specific mill needs – to untether managers and operators from the control room monitors so that they can collaborate across the mill. Bottlenecks can be avoided and opportunities to increase throughput become more visible.

BENEFITS

One of the targets is to mobilize mill activities that require quick accessibility to data via the handheld apps. Supervisors can see alarms in real time on their iPhone or Android devices no matter where they are. Business managers have real-time production and cost data in hand. Maintenance technicians have logbooks, checklists, repair procedures, and other documentation instantly available for each asset they are looking at. Information can be easily exchanged among team members or from one shift to another by smartphone.

LATEST RELEASES

The latest apps released by the Metris development team are designed to display key information in a simple, graphical way using dashboards accessible from mobile devices. Several key apps are available. Work is progressing on many

others, including a special service app to solicit quotations for replacement parts, maintenance documentation, and other service functions.

KEY APPS AVAILABLE NOW:

The My Equipment app is a mobile asset monitoring platform that gives important real-time insight on the status of valves, motors, control loops, etc. It can be integrated with the Logbook app to report issues. An operator or maintenance person can use the smartphone to scan a barcode or QR code on the asset to obtain quick status information.

The Checklist app is beneficial during equipment commissioning, inspections, or planned shutdowns. It gives visual

feedback of progress or key issues and can be customized to display specific checklists or

items to execute for specific individuals or teams. It has desktop integration so that data is shared between field personnel and maintenance planners.

The Logbook app records important events and information generated by users. The data can then be mined and used to train new personnel, find solutions for recurring problems, etc. Team members can share updates and can upload photos and videos of equipment. Managers utilize the app to make announcements available to target groups of users.

The Data Analytics app provides mobile data visualization, making it possible to perform data analysis in the field. Users

can display process trends in graphical format, check real-time values, and have access to manuals or report related to a specific piece of equipment.

The Condition Monitoring app helps identify situations where a machine needs service in order to avoid unexpected downtime. It can collect data from on-machine sensors (e.g., acoustic and vibration data) and display the data time and frequency using Fast Fourier Transform calculations – automatically recognizing specific data patterns that can predict potential failures.

CONTACT

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