j5 Mobility

Isn't it time to digitalize your field operator procedures?

The Problem

Due to the proliferation of mobile technology, operators at industrial sites are no longer confined to desktop computers and control rooms.

Mobile logging of data — such as operator rounds — is an important part of health and safety culture, and many plant operators still rely on paper checklists and clipboards for field data collection.

When using these inadequate methods, the results are usually manually entered in a spreadsheet, database or disconnected application after data is written down. This wastes valuable time and creates unnecessary problems, such as:

- Missing data and unaccounted operations and safety issues

- Data duplication and unnecessary repetition of operator rounds

- Difficult to find or illegible information

- Delays in follow-up actions to solve operations and safety issues

- Lack of control and task guidance for personnel

- Disconnected cameras, required for photographic evidence of problems

Despite the push towards automation, a significant amount of process data is not collected and recorded automatically. This makes manual operator rounds an essential data collection process that must be conducted efficiently, and ideally linked to real-time trends stored in data historians.

Customers have also relied heavily on vendors to create and modify mobile applications, adding frustrations like increased financial costs and wasted time.

The Solution

j5 Mobility

j5 Mobility brings a unique and powerful tool to the operations management environment: the disruptive j5 IndustraForm Templates®, that allow customers to easily create and modify j5 Applications using a familiar, spreadsheet-like configuration environment.

j5 Mobility users can view and edit the same j5 IndustraForm Templates that are available on desktop computers in a two-column mobile device format. Most of the benefits of j5 IndustraForm Templates are available on the mobile device, including approvals, advanced calculations, data validation and more. These can easily be configured to suit an organization using the spreadsheet-like j5 IndustraForm Designer application.

As a result, desktop and mobile applications are now in sync and there are no advanced source code programming skills required to modify or add new j5 Mobility applications — such as j5 Operations Logbook and j5 Work Instructions forms — to the j5 Framework.

j5 Mobility supports all the standard j5 IndustraForm Template field types, including:

- Label
- Text
- Number
- Integer
- Choice
- Checkbox
- Checklist Item

- Rich Text
- Date and Time
- Attachment
- Hierarchy Select
- Sparkline
- Chart
- Asset Selector

j5 IndustraForm Templates have been successfully used to enhance the j5 Control of Work and j5 Work Instructions applications, by providing contextual information and instructions to field workers that can be configured easily as the process changes.

Real-time and historical trends from data historians such as the OSIsoft™ PI System™ can provide more context to operators in the field, and data entered using j5 Mobility can also be written back to real-time data sources.

> **With j5 Operations Management Solutions, I've finally found the solution I needed to take my business to the next level.**
>
> **There's no other company in my niche doing what we do, the way we do it, and a huge part of that is because of j5 Operations Management Solutions.**
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> **Our goal is to implement as much of our daily activities as we can into this system. From our inspection records to manufacture alerts and bulletins, we see j5 Operations Management Solutions as the ultimate solution for tracking our day-to-day activities."**

Michael Fry
President and CEO, Deepwater Subsea

Visualization Features, Barcode Scanning and Attachments

The same powerful j5 IndustraForm Template charts and sparklines that are available on the desktop, are also available for j5 Mobility users. These can display trends and detailed graphs, comparing movements of multiple tags and readings. Individual trend lines can be toggled to highlight comparisons of interest. Being able to view trend data is a common requirement and is helpful in providing context to the task at hand.

Navigating within a j5 IndustraForm Template on a j5 Mobility-enabled device is much easier when using the barcode scanning feature. When a user scans a barcode, the j5 Mobility application navigates to the corresponding position in the j5 IndustraForm Template. This is particularly useful in j5 Applications such as j5 Operator Rounds or j5 Control of Work, when working with many different pieces of equipment. Both camera-based and laser scanners can be used on supported j5 Mobility devices.

Photographs and short videos captured on a j5 Mobility-enabled device can be added to attachment fields. Attachments can be added on the j5 Mobility-enabled device while offline. These will sync up automatically when a connection is restored.

We rely on j5 Operations Management Solutions for logbooks, handovers, work instructions, standing orders, near misses and mobile inspection rounds. We would like to extend our use of j5 Operations Management Solutions to other applications in the future."

Nobuyuki Takahashi
Executive Director, Kainan Plant Manager, Wakayama Petroleum Refinery

HEXAGON

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 21,000 employees in 50 countries and net sales of approximately 3.9bn EUR. Learn more at hexagon.com and follow us @HexagonAB.