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

j5 Mobile IndustraForm® Applications

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 Inspection 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. Using this method, after data is written down, the results are usually manually entered in a spreadsheet, database or disconnected application, wasting valuable time and creating **unnecessary problems** such as:

• Missing data and unaccounted operations and safety issues

• Data duplication and unnecessary repetition of Inspection 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 Inspection Rounds an **essential** data collection process that must be conducted efficiently and ideally linked to real-time systems such as Data Historians.

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

The Solution: IndustraForm® Template Based j5 Mobile Applications

j5 Mobile brings a unique and powerful tool to the operations management environment. The disruptive **j5 IndustraForm Templates**, which allow j5 International customers to easily create and modify j5 Applications.

j5 Mobile users can view and edit the same j5 IndustraForm Templates that are available on desktop computers. **All the benefits of j5 IndustraForm Templates are available on the mobile device**, including workflows, approvals, advanced calculations, data validation, and more. These can easily be customized to suit an organization using the spreadsheet-like j5 IndustraForm Designer. 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 mobile applications** – such as j5 Shift Handover forms – to the j5 Framework.

j5 IndustraForm Template applications on j5 Mobile allow for the viewing and editing of any j5 IndustraForm Templates.

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

• Label	• Checkbox	• Attachment
• Text	• Checklist Item	• Hierarchy Select
• Number	• Rich Text	• Sparkline
• Integer	• Date and Time	• Chart
• Choice	• Date	• Asset Selector

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

When online, **j5 IndustraForm Templates are automatically and continuously kept in sync between the j5 Operations Management Software server and the mobile device**. As a j5 Mobile user edits a field, the change is reflected on the j5 Operations Management Software server, and vice versa. This **ensures that mobile and control room users have the same view of the data**.

Multi-user concurrent editing is also supported, even in the same j5 IndustraForm Template Section, allowing for real-time collaborative editing. **When a mobile device loses connectivity, changes are stored and then forwarded automatically once connectivity is restored**.

Visualization Features, Barcode Scanning and Attachments

The same powerful j5 IndustraForm Template **Charts** and **Sparklines** that are available on the desktop are available for j5 Mobile users.

They can view 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 Mobile enabled device is much easier when using the **Barcode Scanning** feature.

When a user scans a barcode, the j5 Mobile application navigates to the corresponding position in the j5 IndustraForm Template.

This is particularly useful in j5 Applications such as j5 Inspection Rounds or j5 Permit to Work, when working with lots of equipment.

Both camera-based and laser scanners can be used on supported j5 Mobile devices.

Photographs and **short videos** captured on a j5 Mobile enabled device can be added to attachment fields.

Attachments can be added on the j5 Mobile enabled device while offline. These will sync up automatically when a connection is restored.

Customer Quote

" **With j5 Operations Management Software, 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 Software. 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 Software as the ultimate solution for tracking our day to day activities.** "

Michael Fry
President and CEO, **Deepwater Subsea**

THE ONLY OPERATIONS MANAGEMENT PLATFORM WITH SPREADSHEET CONFIGURABILITY AND ENTERPRISE SCALABILITY

The j5 Operations Management System is a world class Shift Handover, Operations, Process Safety, Compliance and Mobile solution which is used by multinational companies such as AGL Energy, Calpine, Infineum, INPEX, JXTG Nippon Oil & Energy, Saudi Aramco, Thames Water and many more. **j5 Operations Management Software is used by over 65% of the Downstream and 100% of the Upstream Oil and Gas assets in Japan**. As a result, the solution has been developed in industries with a strong continuous improvement (Kaizen) philosophy.

DEEPWATER SUBSEA

Deepwater Subsea Case Study

j5 Operations Management Software Benefits

• An optimized web-based and mobile solution enabling monitoring of inspection activities in real-time	• The j5 OSIsoft PI Interface (Asset Framework and SDK) allows relevant real-time data to reach inspectors as they work
• An optimized web-based and mobile solution enabling monitoring of inspection activities in real-time	• Greater transparency and visibility for customers, increasing credibility and allowing them to interact with inspectors
• j5 IndustraForm Templates allow for the easy adding and modifying of forms to meet specific Oil and Gas industry requirements and changes	

There has been a **70% saving in productivity when it comes to documentation and completion of inspections.**

There has also been a **95% saving in time retrieving and searching for quality evidence post inspection.**

The inspectors now load the findings directly in a digital report which eliminates the need for additional filing of reports and records.