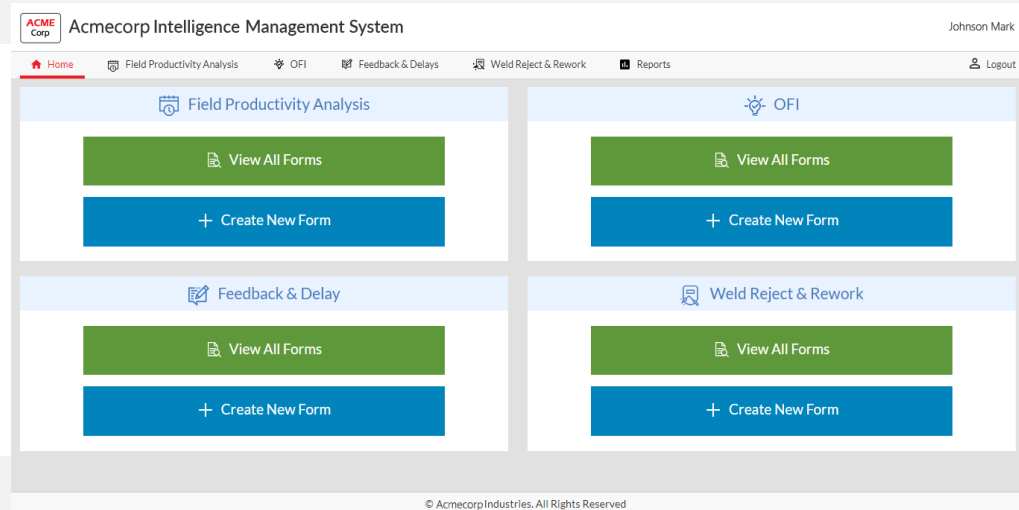


# A construction firm drives operational excellence, and elevates employee experience by digitizing the physical forms using Azure App Services



The customer is one of the largest, most diversified U.S. based construction companies with more than 6,000 employee-owners. The company provides nearly every type of civil, commercial and industrial construction services. It prides itself in delivering exceptional service on large, highly complicated projects with emphasis on qualified teams and performance.

## The Customer Challenge

The foreman, auditors or observers of the company recorded hundreds of inputs on physical forms daily. At the end of every day, the designated staff member of a job site interpreted all the forms and manually entered the data in the excel sheets. Due to the massive volume of forms, and the limited workforce, there were considerable delays in keeping the data up-to-date. Moreover, the legacy system did not have capabilities to provide the required insights to the executive team that was important for them to take the right decisions to improve operational efficiency and safety.

The current system involved manual efforts in filling the forms resulting in errors and delays in entering the audit sheet, thereby reducing the overall productivity. The challenges with the current process and system include

- Outdated legacy system
- Lack of resources to save recorded data
- Lack of structured and easily accessible storage of the site operational data
- No actionable insights

Consequently, the company was looking to automate the capturing of physical forms entered by their users into electronic forms, to make the capturing process is efficient. The application is expected to allow filling the e-forms and eventually save the data in a database. The data was captured onsite and hence, the application required to support both desktop and mobile devices and work offline due to poor network connectivity.

## WinWire Solution

WinWire helped the company modernizes the application leveraging **Azure App Services & Application Insights** by developing the **Site Data Capture Application** with web and mobile interfaces. The application allowed foreman, auditors or observers to fill out and submit the e-forms for approval to their managers. The managers verified and got approved by the client by signing the digitized forms. The captured data was presented in the form of reports, (fueled by **Power BI**) to the client monthly. The application facilitated downloading of approved forms as PDF and send it to the customers.

The application is widely accepted by auditors and other users of the company due to its **offline capability and user-friendly interface**, resulting in increased productivity. The application provides **real-time stats** related to audits. The reporting feature in the application provides **insights on safety and operational efficiency** enabling senior executives of the company to identify the issues much quicker and take right decisions.

The application is used at multiple job sites of the company resulting in increased employee experience and productivity.

## The Business Value

- Streamlined site operations across organization
- Reduced manual data-entry due to automation
- Enhanced employee productivity and experience
- Quicker actions to issues on sites