

KAAR TECHNOLOGIES



Leading Oil & Gas Company Automates Field Inspection on Mobile



The Organisation

One of the world's leading oil corporations with the largest crude oil reserves and production. With 80 years of expertise and legacy, the client has become the world leader in oil exploration, production, refining, distribution, shipping and marketing. To their credit, they are also the world's top exporter of crude oil and natural gas liquids (NGLs). The client plays a key role in balancing the stability of international crude oil prices by maintaining ample crude oil production capacity.

Business Situation

The organisation executes Oil and Gas exploration all over the world and their inspection team needs to manage the operational assets such as valves, hoses, harnesses, cranes, pipelines etc. in various remote areas with very less connectivity which is of critical importance.

The inspection team, managing operational assets, used to collect data and report incidents manually on a periodical basis. The collected data was consolidated in excel sheets and fed into SAP system for further analysis.

The entire exercise was really time consuming and took much of inspection team's efforts to gather, consolidate and analyse the required information. The client was facing myriad challenges due to this manual process and was in dire need of a solution that would simplify their efforts and improve operational efficiency.

Business Challenges

The client's inspection team faced the following challenges:

- * Lack of an automated system to manage existing assets
- * Lack of streamlined process for the inspection of assets
- * Difficulty in consolidating & analysing humungous collected data
- * Non availability of compliance report
- * Non availability of real-time and accurate data
- * Human error leading to unnecessary delays and also repetitive data collection
- * Utilisation of more resources for these inspections

The client as well as the inspectors felt that the manual process was time consuming and tedious. Since the inspection is a regular routine of the work, the inspectors were not comfortable with the paper work.

Kaar Solution

Kaar Technologies was engaged by the client as a strategic partner to address their challenges. A team comprising high-calibre SAP consultants was exclusively formed for the project. The team then conducted a deep-dive analysis to understand prevailing business problems and arrive at a simplistic solution roadmap. As a result, the team developed a mobile app using **SAP Mobility Platform & SAP Sycco Agency 7.0**. The entire project was successfully completed within a span of six months. The implementation was well received by the client's management team and the inspection team.

The inspectors are currently accessing the app built on latest windows OS using their own mobile devices from remote oil rig locations to manage, create and deploy checklists for field inspections.

The developed mobile app boasts an intuitive and easy-to-use interface that helps inspectors complete the audit with just few simple clicks. The app even allows inspectors to collect data in places where there is no internet coverage. The collected data then automatically syncs with the SAP system once the connection is re-established. The app also helps inspectors to consolidate the available data in real time and generate reports. The solution has significantly reduced the human error and repetitiveness of work. The solution is helping the client to manage the inspection exercise with fewer resources. The inspection team is extremely happy with the new mobile application and completely embraced the app.

Business Benefits

- * Streamlined inspection process by eliminating manual work (paper based)
- * Increased resource productivity
- * The data analysis can be done on both web as well as using mobile devices
- * The audits can be monitored seamlessly from the central system
- * Prompt analysis and feedback on field inspection activities
- * Quicker and faster reports using mobile devices

About Kaar

Kaar Technologies is a global consulting firm focused at designing, delivering and deploying the finest ideas and SAP expertise to empower companies in achieving new heights of excellence in today's challenging business landscape.

Our combined thrust drawn from the business vision of our leadership team and assimilated SAP capability propels us to partner with our clients in identifying and architecting their business agenda. As a CMMi level 3 company, Kaar believes in being a trusted advisor to clients and fosters long-term working relationships by exceeding customer expectations.

Driven by the steadfast pursuit of excellence, Kaar Technologies exudes professionalism and proficiency in all areas of function. Every day we are inspired to impact businesses with original and imaginative approaches, helping to cultivate tomorrow's breakthroughs.



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