Electronic Permit to Work

An Electronic Permit to Work (ePTW) system digitizes the permit management process, streamlining the approval and documentation of work activities in hazardous environments. It enhances safety by providing real-time tracking, automated workflows, and comprehensive reporting, ensuring compliance with safety regulations and improving communication among teams.

About the Customer

Our customer is one of the leading exploration and petroleum production companies in the Middle East.

The Business Case

Paper based maintenance workflow management solution client was using prior to electronic permit solution was having following constraints: Lack of data integrity, longer SLAs, redundant data entry process as part of digitizing the data for the workflow continuity. Client wanted to get rid of the above constraints in the electronic permit to work solution.

Our Solution

Technodx proposed an integrated electronic permit to work solution with components spread across backend systems and a handheld application. Following solution approaches have been adopted for overcoming the constraints showcased by the client in their As-Is process and workflow

- Data integrity ensured through integration of geo coordinates at the point of data capture. Same data got uploaded into the backend system in real time.
- Complete paper based data transactions in the workflow have been eliminated with digitized forms made available on handheld devices.
- End to end data creation and flow has been digitized for eliminating the redundant data entry activities existed in the As-Is workflow.
- Business process continuity ensured through offline capability to overcome the challenges associated with intermittent coverage.
- Usability aspects related to the fall of direct sunlight on to the handheld screens have been addressed through proper device selection and color theme selection for handheld application

Solution Achievements

Electronic Permit to Work helped the client's IT organization to align with the organizational objectives towards Health, Safety and Environment as the solution eliminated the usage of paper from the whole workflow. Other achievements for the client from the solution roll out include

- Elimination of paper in the complete workflow by transforming the paper based permit to work to electronic permit to work.
- Data integrity of the preventive maintenance tasks achieved through geo location based tagging for the data fields to be captured from the equipments.