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Paper Title: Maintenance Depot Software Automation

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Abstract:

EmpowerMX is an Aviation Software and Services company which was established in 1999 and is based in Frisco, Texas, USA. With a customer list which includes Delta Air Lines, American Airlines, United Airlines, Airborne Express, Southwest Airlines, American Eagle as well as several Maintenance and Repair Organizations, EmpowerMX is a leader in Aviation Software. Currently there are over 13,000 named users using our system as well as 3,800 aircraft being maintained within the system.

EmpowerMX's FleetCycle software suite is web-based and can either be hosted by our customer or by our partner Amazon Web Services which can be accessed from any location that has internet access. The entire suite can also be accessed by any portable device which drastically improves efficiencies during maintenance events both in line maintenance and heavy maintenance environments.

The FleetCycle software suite is modular and can be used either independently or integrated with our customer's legacy software. It is fully configurable and permission based which ensures limited number of required customizations. Production Manager (FCXP) is the module that our airline and MRO customers use to support their production control and maintenance execution for airframe maintenance in both hangar and line environments.

FCXP allows our customers to automate the planning and execution of maintenance checks by enhancing visibility and repeatability of all checks. The check is managed in real time with visibility of aspects of the check as well as live timekeeping on tasks. Using our software the airlines are able to put a plan together that can be viewed by all, ensure the plan is followed, and then adjust the plan accordingly on the next maintenance events. At any moment during the check and with proper permissions airline personnel can see the exact status of schedules, budgets, and materials and adjust the workflow accordingly.

Most airlines after implementing the software have seen efficiency gains of between fifteen and thirty percent and in turn have drastically reduced their maintenance budgets and turn times on maintenance events. EmpowerMX would expect to see the same efficiency gains out of DOD customers.