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Paper Title: Product Life Management System Deployment across the NAVAIR COMFRC

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Abstract: The Systems being acquisitioned by NAVAIR have been produced by companies utilizing state of the art Product Data Management (PDM) systems, and upon delivery of these systems to NAVAIR, the OEM goes on to provide Product Life Management (PLM) systems to maintain configuration management changes that are initiated by the OEM. However, NAVAIR performs configuration management changes on these systems and a PLM system is not in place to appropriately configuration manage the lifecycle data changes. This results in replacement parts being fabricated that may not be usable because changes occurring in the fleet have not been tracked, and it also results in modification kits being fabricated assuming the aircraft in the fleet are of the same configuration that left the factory. This lack of government tracked configuration management exasperates the work associated with fatigue life extensions and related studies because the exact configuration of fleet assets is not exactly tracked. Depot level one of a kind repair design changes are not configuration managed further exasperating change management causing major inefficiencies resulting in added costs and loss of readiness.

The three NAVAIR FRCs have participated in an OSD funded CTMA project to evaluate Teamcenter as a viable tool to create configuration management capability within the COMFRC construct with positive results. These positive results have propelled the FRCs to invest in infrastructure to be capable of appropriately managing 3DMBE data and to make this data readily available for use by shop floor artisans.

This Paper will provide historical accomplishments and future NAVAIR COMFRC planning in deployment of the PLM platform.