DoD Digital Engineering Strategy

PTC FA&D Solutions and Focused Strategy
PBL AND CBM+ WITH PTC

Service Parts Management (SPM)

Connected Service Parts Management (CSPM)

ThingWorx Analytics

ThingWorx iIOT Platform

PLM Backbone – Digital Twin/Digital Thread

Solution Capabilities

- Demand Forecasting
- Optimize inventory to meet PBL contract metrics
- Budget Planning & Reporting
- What-if scenarios to negotiate contract terms
- Order Planning

- Life-Limited Parts Forecasting
- Asset condition dashboard
- Condition monitoring data collection and processing
- Model CBM triggers
- Integrate CBM decisions with SPM for execution

- Machine Learning
- Data Mining
- Advanced algorithms for failure prediction from multiple sensor data
- Integrate with CSPM for execution of outcome
PBL AND CBM+ WITH PTC

- **SPM**
  - Supply Planning
  - Demand Forecasting
  - Inventory Optimization

- **CSPM**
  - Failure Prediction
  - LLP Forecasting
  - Utilization data for Causal Forecasting

- **TW Analytics**
  - Machine Learning
  - Utilization & Condition Data

- **ThingWorx iIOT Platform**
  - Quality/FRACAS data for Engineering Analysis
  - Enterprise Systems of Record (ERP, MES, MRO etc.)

- **PLM**
  - (In-Service Config / SBOM, Engineering)

- **Procurement, Repair & Transfer Recommendations**

- **Budget Reports**

- **Condition Monitoring Dashboards**
PBL and CBM+ with PTC

- Holistic approach to PBL and CBM in integrated solution
- Ability to own the Digital Thread and Digital Twin of the weapon system
- Manage PBL metrics with best in class connected inventory optimization
- Active downtime reduction and drive up readiness
- Drive down costs across supply chain

Federal, Aerospace and Defense Industry Vertical