

Project: MBSE enabling the Digital Thread

The Business Challenge:

- Difficulty in automatically establishing MBSE digital thread while authors work in various systems of record (SORs)
- Manual and error prone processes to track and validate MBSE digital thread
- Difficulty in cross-training engineering workforce to build digital thread due to infrastructure and ownership
- MBSE digital thread difficult to visualize, navigate and maintain

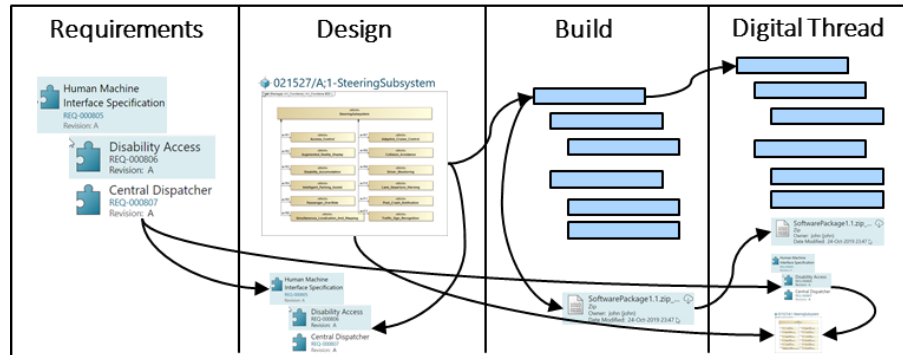
Benefits & Highlights of eQube DaaS based solution

- Established the MBSE digital thread in the background across various applications while authors continued to work in various SORs (P6, DOORS-NG, CAMEO, JIRA, BitBucket, ArtiFactory, and Teamcenter UA)
- Delivered a 'for-purpose' App for MBSE to visualize, navigate and maintain the MBSE digital thread
- Delivered compelling KPIs to monitor performance for actionable insight
 - Embedded KPI portal for: Design maturity, Earned Value, Quality, and Validation
- Initial solution was developed within 2 months



Features

- Agnostic to the disparate MBSE systems
- Auto creates objects across MBSE tools
- In the background, creates links and relationships assuring a “digital thread” across MBSE tools
- Orchestrates business processes across multiple MBSE tools
- Provides insights into the health of the ‘digital thread’ during the entire MBSE lifecycle (Mechanical, Electrical, Firmware)
- Leverages MBSE systems providing closed loop verification with actionable insight
- Integrated A/B/I for KPI, Metrics, and Model Maturity



eQ Process

- eQ Products used: eQube®-TM, eQube®-API Gateway, eQube®-MI and eQube®-BI
- eQube® Web App Toolkit for building the ‘for-purpose’ app
- Orchestration between multiple MBSE applications

