Technical Data

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Technical Data Overview

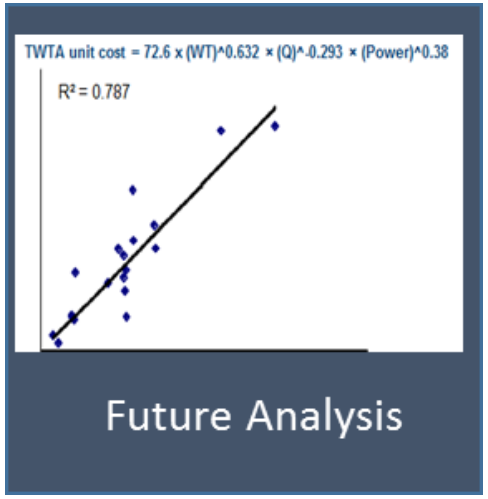
- **The Technical Data initiative is intended to systematically capture technical data and other cost-driving metrics on DoD contracts. This session will give a status update on where the Technical Data initiative stands today and what the anticipated growth looks like, as well as to provide a demo of the Technical Data Utility to show its use for both industry and government.**

- **Overview:**
  - **Technical Data Initiative**
    - What is Technical Data and Why Do We Collect It?
    - Technical Data Status
  - **Technical Data Planning Process to End Goal**
    - How Do We Collect Technical Data?
    - Demo of the Utility to Create the Technical Data Supplement

Technical Data Initiative

Technical Data Initiative

- ***Cost data has been delivered on DoD contracts for 60 years, Software data has been provided for 10 years. Technical data has always been a requirement; however, not implemented effectively with capability to tie cost to Technical data***
- **What is Technical Data?**
  - Provides mechanism to systematically capture Tech Data on contracts
  - Creates a common Tech Data Vocabulary
  - Defines core set of needed parameters
  - Leverages other Tech Data on contract
- **Why Do We Collect It?**
  - Provides context to the cost data
  - Defines the Program's Technical Baseline
  - Ingredient of acquisition strategies, e.g., schedules
  - Identification and quantification of cost drivers
  - Foundation for Independent Technical Assessments
  - Supports architecture trade studies
  - Highlights areas of potential risk

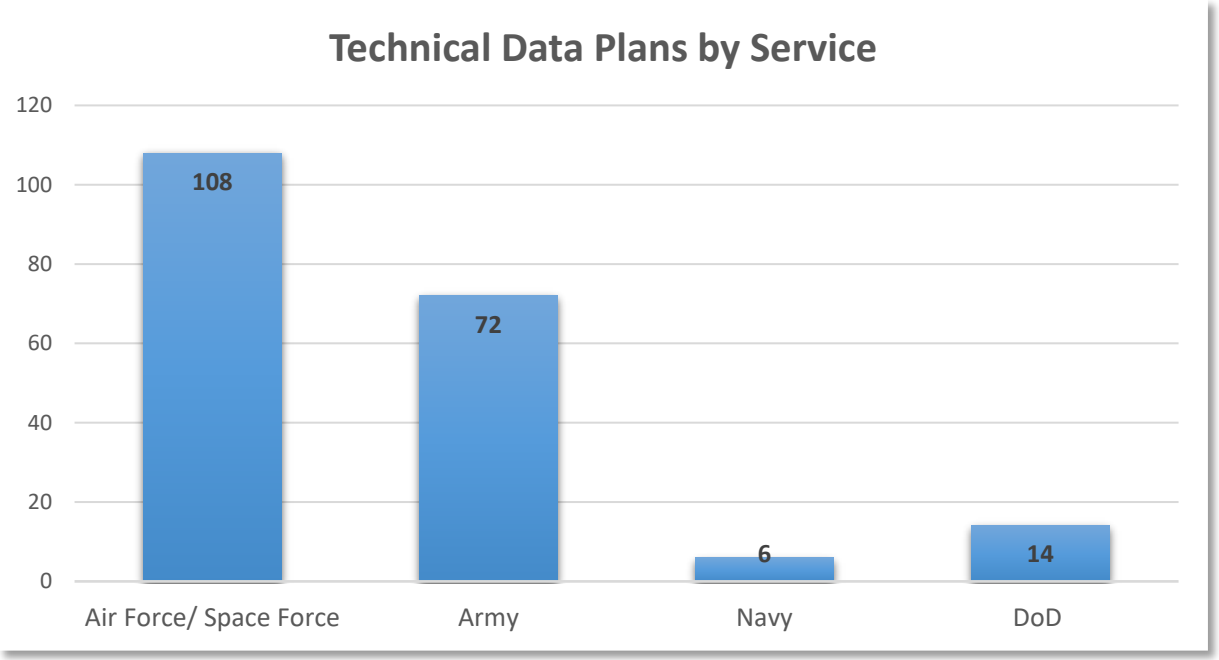


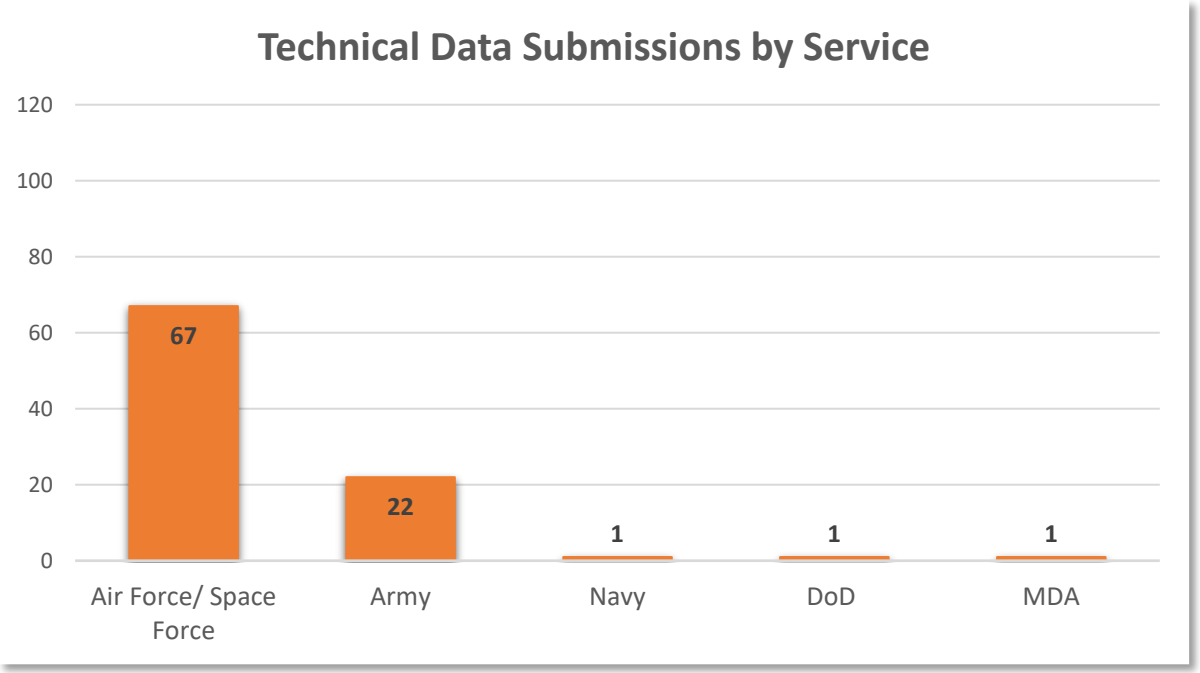
Tech Data has a <u>purpose</u>

Technical Data Initiative

- **Technical Data *Plan* Status update:**
  - **208** Plans with Technical Data initiative
  - **95** Programs Technical Data initiative

- **Technical Data *Submission* Status update:**
  - **92** Technical Data Submissions
  - **30** Programs with Technical Data Submissions





Technical Data Planning Process to End Goal

Technical Data Planning Process to End Goal

- **How Do We Collect Technical Data?**
  - Start with **MIL STD 881 WBS** Structure DD2794
  - Use the **Core Parameters** by Commodity & Phase
    - *Core Parameters were developed using the following criteria*:
      - Absolutely Required to Perform Cost Analysis
      - Typically not Produced by Govt Team
      - Normally Produced by Industry
      - Segregated by each Commodity
      - Changes throughout the evolution of a Program
  - Review other Contractual CDRL Requirements to Minimize Duplication
  - Refine Contract-Specific Parameters using Technical Data Vocabulary Database

Commodity Standard Templates

MIL-STD 881WBS → ***Core Parameters*** → ***Minimize Duplication*** → ***Refine Parameters***

Technical Data Planning Process to End Goal

- **Demo of the Utility to Create the Technical Data Supplement**
  - ***What is the Technical Data Utility?***
    - The Technical Data Utility is an excel workbook with VBA code intended to facilitate the creation of the Technical Data Supplement (Page 8 on the DD2794).
  - ***What does the Technical Data Utility include?***
    - The entirety of the Technical Data Vocabulary which includes the parameter definitions
    - The Standard Plan Commodities with Item Types and Parameters identified for each WBS Element
  - ***Why do we use the Technical Data Utility?***
    - The technical data allows for the planners to easily create the Technical Data Supplement based off of their WBS Structure
    - The creation of the Technical Data Supplement sets up the structure for industry to submit Technical Data in a Data Model format to help with future Technical Data Repositories

Technical Data Planning Process to End Goal

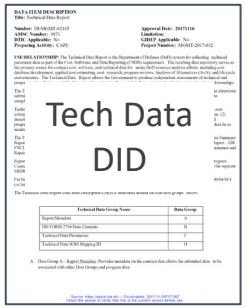
Commodity Standard Templates

Data Universe

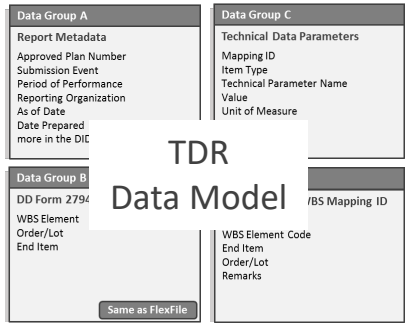
- Program Template
- Acquisition Template
- PMP Hardware Template
- Non-Hardware Template
- Cost Template
- Other Templates

CEM Templates

CARD Tables



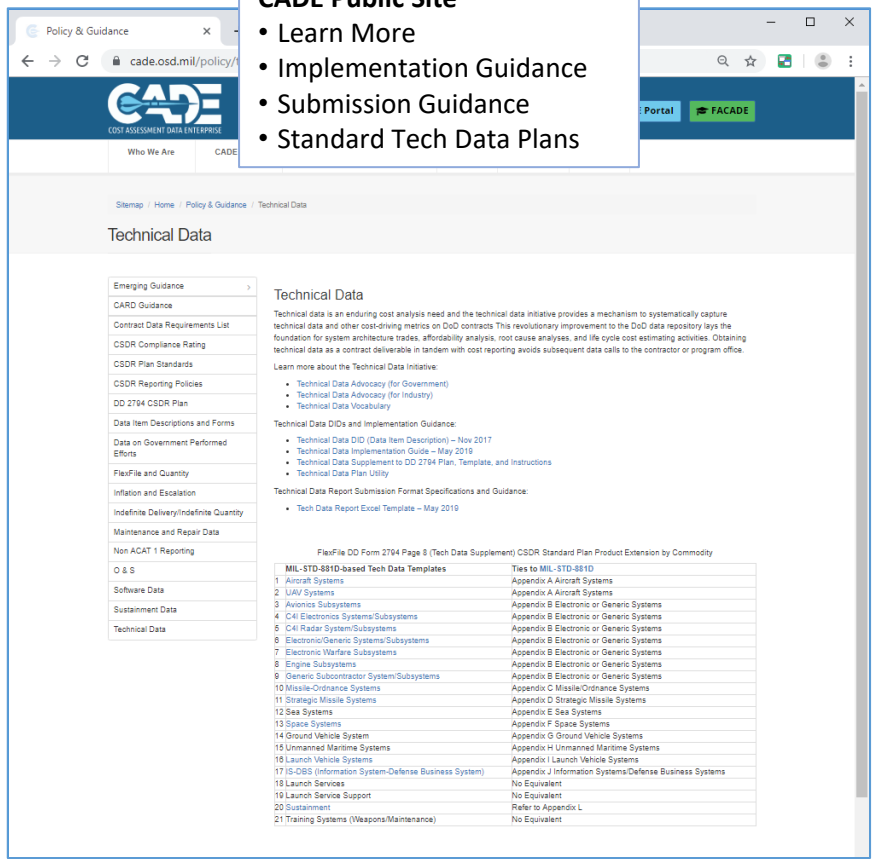
CADE Tech Vocab & Utility



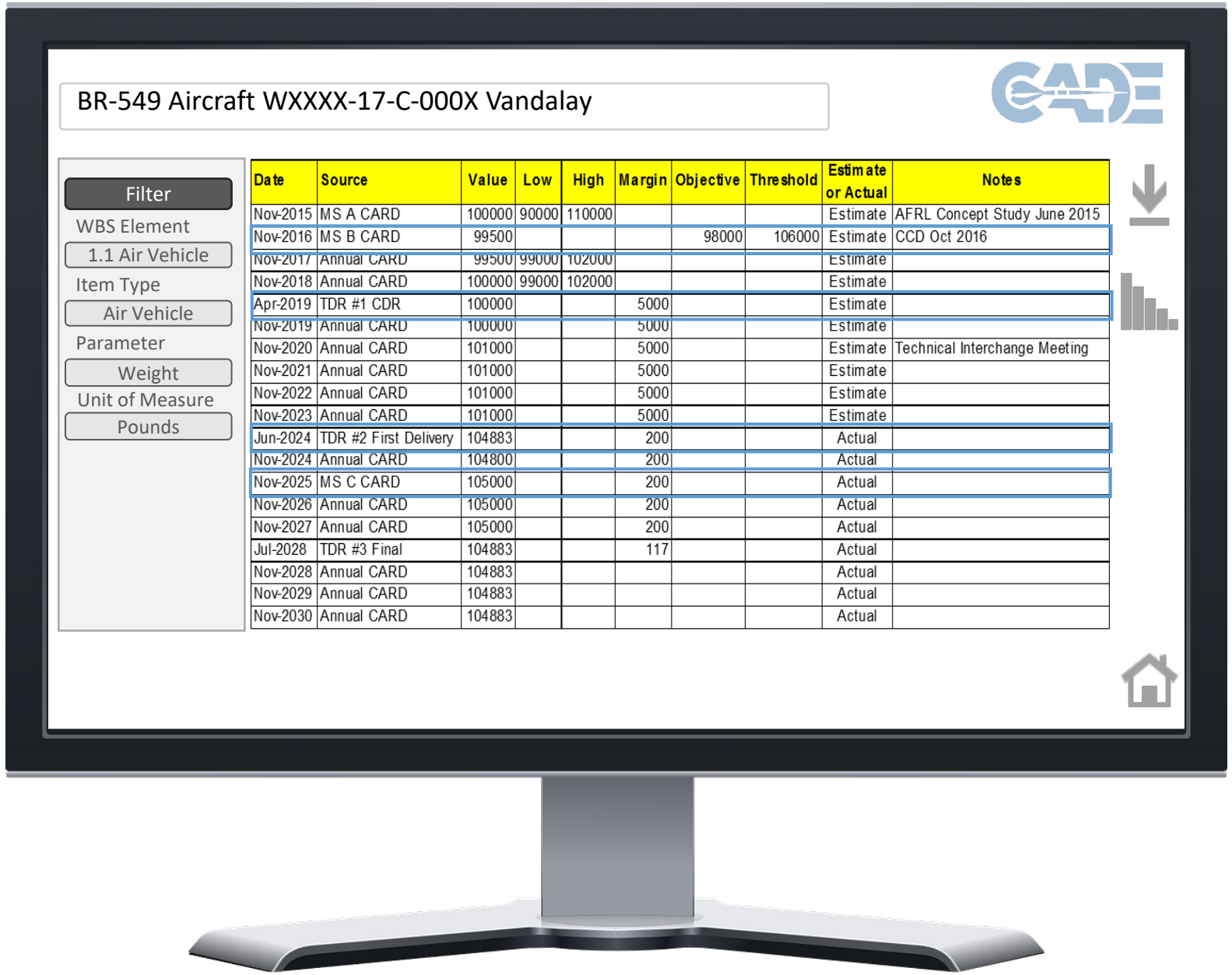
Tech Data Implementation Guide

CADE Public Site

- Learn More
- Implementation Guidance
- Submission Guidance
- Standard Tech Data Plans



Technical Data Planning Process to End Goal



BR-549 Aircraft WXXXX-17-C-000X Vandalay

Filter

WBS Element

1.1 Air Vehicle

Item Type

Air Vehicle

Parameter

Weight

Unit of Measure

Pounds

Date	Source	Value	Low	High	Margin	Objective	Threshold	Estimate or Actual	Notes
Nov-2015	MS A CARD	100000	90000	110000				Estimate	AFRL Concept Study June 2015
Nov-2016	MS B CARD	99500				98000	106000	Estimate	CCD Oct 2016
Nov-2017	Annual CARD	99500	99000	102000				Estimate	
Nov-2018	Annual CARD	100000	99000	102000				Estimate	
Apr-2019	TDR #1 CDR	100000			5000			Estimate	
Nov-2019	Annual CARD	100000			5000			Estimate	
Nov-2020	Annual CARD	101000			5000			Estimate	Technical Interchange Meeting
Nov-2021	Annual CARD	101000			5000			Estimate	
Nov-2022	Annual CARD	101000			5000			Estimate	
Nov-2023	Annual CARD	101000			5000			Estimate	
Jun-2024	TDR #2 First Delivery	104883			200			Actual	
Nov-2024	Annual CARD	104800			200			Actual	
Nov-2025	MS C CARD	105000			200			Actual	
Nov-2026	Annual CARD	105000			200			Actual	
Nov-2027	Annual CARD	105000			200			Actual	
Jul-2028	TDR #3 Final	104883			117			Actual	
Nov-2028	Annual CARD	104883						Actual	
Nov-2029	Annual CARD	104883						Actual	
Nov-2030	Annual CARD	104883						Actual	