

COST ASSESSMENT DATA ENTERPRISE

FlexFile 101

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- FlexFile Implementation Overview
- Legacy Reports
- FlexFile/QDR Data Groups
- FlexFile/QDR Planning, Submission, and Validation
- Data Access CSDR-SR
- Data Access Data and Analytics
- Important Documents





Takeaways from the course:

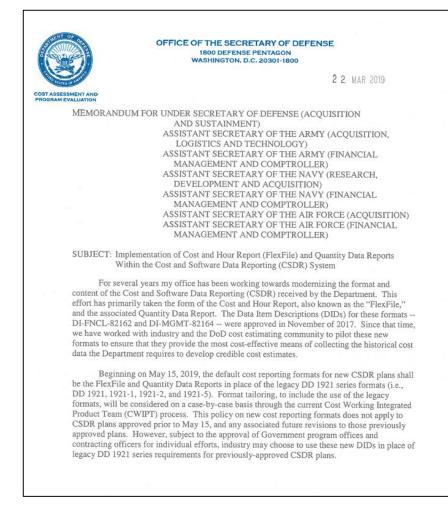
- 1. Determine the requirements of the Cost and Hour Report (FlexFile) and Quantity Data Report
- 2. Identify additional insight provided by FlexFile in comparison to legacy 1921 reports
- 3. Explain implementation and impacts of FlexFile requirement to the CSDR Planning process
- 4. Identify the resources and references for FlexFile Validation process
- 5. Demonstrate how FlexFile data is submitted, stored and retrieved
- 6. Access the utility of the CSDR Browse functionality in Data & Analytics to search available CSDR Data in an easy-to-use filter

FlexFile 101 FlexFile Implementation



Implementation

- As of <u>May 15th, 2019</u> (per Deputy Director, Cost Assessment memo), the Cost and Hour Report (FlexFile) and Quantity Data Report (QDR) will replace DD 1921 Series as the default required cost reporting requirement for newly approved CSDR plans
- Some tailoring of the DID requirements may be proposed by the CWIPT (e.g. time-phasing for periods longer than a month)
- If there is context-specific rationale, e.g. the reporting contractor and effort being performed make it unlikely the additional insight provided will be utilized, then the CWIPT may propose to use the DD 1921 series.

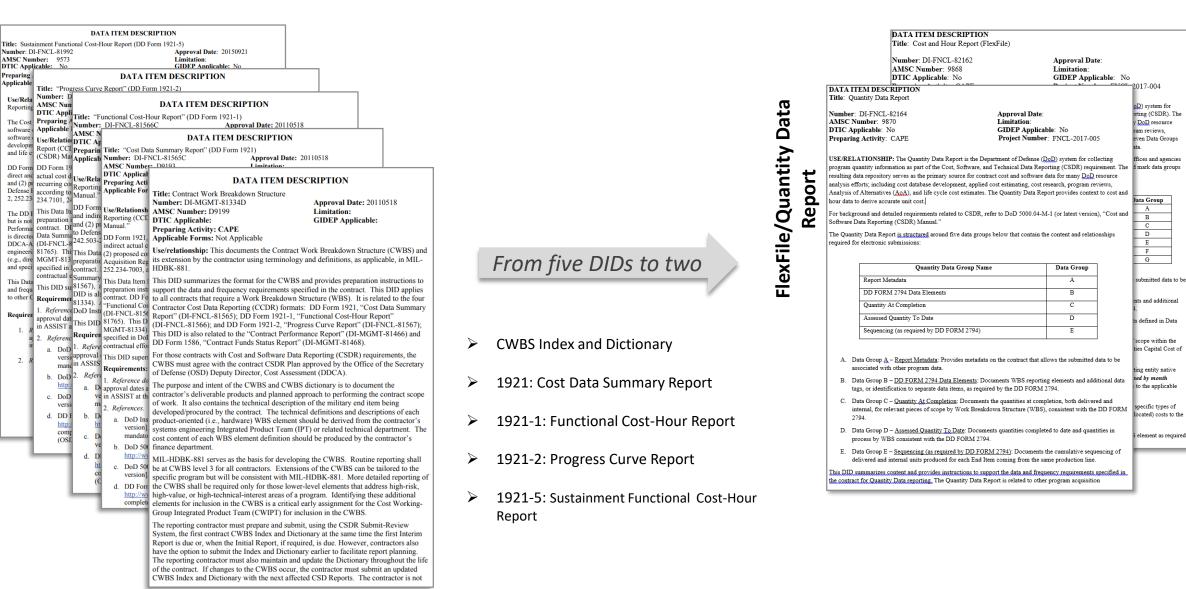


FlexFile 101 Legacy 1921 Reports to FlexFile

DIDS

egacy.





FlexFile 101 Legacy Reports and the FlexFile



CSDR Staples

- □ Work Breakdown Structure
- □ Nonrecurring and Recurring
- □ Standard Functional Categories

							TO DATE			AT COM	PLETION		
LINE			REPO	ATING ELEMENTS	ELEMENT		COSTS INCURRED				COSTS INCURRE	0	
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22	5100	ENCIMPER	THE MANAC	EMENT/SYSTEM ENGINEERING	A10610	-		-		-	-	-	
22	5200			ANAGEMENT	A10620		-	-		-	-	-	179
22		CONSORTI	UM SYSTEM	PROJECT MANAGEMENT	A10630	-		-		-	-	-	14,196
22		FOREIGN I			A10660		27 647	-		-	38.512		
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CSDRs reported since the 1960s with three main requirements

FlexFile 101 Legacy Reports and the FlexFile



CSDR Staple

- □ Work Breakdown Structure
- Nonrecurring and Recurring
- □ Standard Functional Categories

							FUNCTION			ADJUST-	CONT	-	SUSCONTR	ACT OR OUT	70	TAL
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21	1000 PROULTAR BOPPORT EQUIPMENT (BUT ON CONTRACT)	A10400					1 11	~~~~	- 112		155.	184			155	18
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22	5000 SYSTEM/PROJECT NANAGEMENT	A10600	3.465	23907	27,372		5,582	38,512	44,094		880	940			880	91
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23	6100 TECHNICAL FUBLICATIONS	A10710	-	-	-		-	-	-		33.064	133.005			\$33.064	133.00
23	6200 ENCINEERING DATA 6300 INVIACEMENT DATA	A10720 A10730	5845	21	5866		6.849	25	6874		94.946		113.428			
23	6400 DATA DEPOSITORY	A10730	28	2.0			57	#2	79.	-	24,240	102,111	10,410	1	10013/4	1
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Data Group A Data Group B ata Group C **Report Metadata** DD Form 2794 Data Elements Definitions and Remarks WBS Element Approved Plan Number WBS Element Definitions Submission Event Order/Lot Remarks by WBS Element Period of Performance End Item Summary Remarks **Reporting Organizatio** As of Date Date Prepared **FlexFile Data Fields** more in the DID. ata Group F will be explained on Summary Elements Actuals To Date (ATD) Allocation Methodology Order/Lot Account Allocation Method Subtotal Reporting Period the next few slides **General and Administrative** CLIN Undistributed Budget Nonrecurring or Recurring Management Reserve Functional Category / Overhead Facilities Capital Cost of Money Standard Functional Category Contract Fee Unit/Sublot Contract Price **WBS Element** Order/Lot and End Item ATD (Dollars and Labor Hours) Legacy Element Data Group G Greatest value to cost Forecasts At Completion (FAC) estimator, in many cases, FAC (Dollars) will be the additional insight FAC (Labor Hours) requested in Group E

The FlexFile combines both the old and the new in one report that supports both top-down and bottom-up estimates

FlexFile Next Step

- □ Monthly Time-phased Data
- □ "Account" Level Detail
- □ Contractor Functional Categories



COST ASSESSMENT DATA ENTERPRISE

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The FlexFile

Approved Data Requirements

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FlexFile 101 FlexFile Data Requirements



DD Form 2794 Data Elements WBS Element Order/Lot End Item	Definitions and Remarks WBS Element Definitions Remarks by WBS Element Summary Remarks	The core
Order/Lot	Remarks by WBS Element	
	Summary Nemarks	contracto
		> Insig
Data Group E	Data Group F	Cate
Actuals To Date (ATD)	Allocation Methodology	► Belov
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WBS Element Order/Lot and End Item		> Cont
	Account Reporting Period CLIN Nonrecurring or Recurring Functional Category / Overhead Standard Functional Category Unit/Sublot WBS Element	Actuals To Date (ATD)Allocation MethodologyAccountAllocation MethodReporting PeriodAllocation MethodCLINNonrecurring or RecurringFunctional Category / OverheadFunctional CategoryStandard Functional CategoryUnit/SublotWBS ElementOrder/Lot and End Item

The core of the FlexFile is providing dollars and hours at the **CLIN** and **account** level in **contractor native categories**, **time phased**.

- Insight into contractor's native Functional Categories
- Below WBS level of reporting with CLIN and Account
- Data time-phased monthly or to align with contractor's financial calendars
- Continuity with prior reports by requiring the <u>legacy elements</u>

FlexFile 101Quantity Data Report Requirements



Data Group A	Data Group B	Data Group C	The Quantity Data Report ties the necessary
Report Metadata Approved Plan Number Submission Event Period of Performance Reporting Organization As of Date Date Prepared more in the DID	Government Furnished Equipment WBS Code/Level/Name Order/Lot End Item	Quantity at Completion Delivered Quantity At Completion Internal Quantity At Completion Co-production or Concurrent Quantity At Completion Government Furnished Equipment At Completion Remarks	 quantity information to the FlexFile: Units to date should reflect an actual count of physically completed units Allow sequencing quantities to be optional
Data Group D Assessed Quantity to Date Quantity Completed To Date	Data Group E Sequencing (as required by Plan) First Unit Number	Legacy Element	through Planning process for each End-Item as not all End Items may require sequencing (e.g., Kits)
Quantity In Process Remarks	Last Unit Number Is Internal		Sequencing was allowed for lower level WBS elements in legacy 1921-2, but FlexFile does not sequence WBS elements (only End Items)
			To Date and In Process to be defined by contractor in the Remarks section

FlexFile 101 Summary: FlexFile Reporting Requirements



Legacy Reporting

DIDs	Reporting Elements	Submission mechanism	Formats available to analysts
CWBS 1921 1921-1 1921-2 1921-5	 WBS NR/R Standard Functional Category Unit/Sublot Cost Reporting ATDs and FACs To Date Quantities At Completion Quantities Sequencing Definitions 	 XML DD Forms generated by cPet desktop or web 	1921 DD FormsExcel flat file

FlexFile and Quantity Data Report will replace DD 1921 Series

 All of the elements found in the DD 1921 Series can be found in the FlexFile and Quantity Data Report

FlexFile/Quantity Data Report

DIDs	Reporting Elements	Submission mechanism	Formats available to analysts
FlexFile QDR	 All Legacy reporting elements Account End Item and Order/Lot CLIN Functional (Internal) Category Functional (Internal) Overhead Category Time-phasing Allocation Methodology GFE units 	 JSON Data Model <u>or</u> Excel-Compatible Format 	1921 DD FormExcel flat File

- For one submission, the contractor will submit a FlexFile and a corresponding Quantity Data Report (if applicable)
- The CWBS Dictionary is part of the FlexFile DID and must be submitted with every FlexFile



Introduction to Cerberus:

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A fictional program used to demonstrate the FlexFile

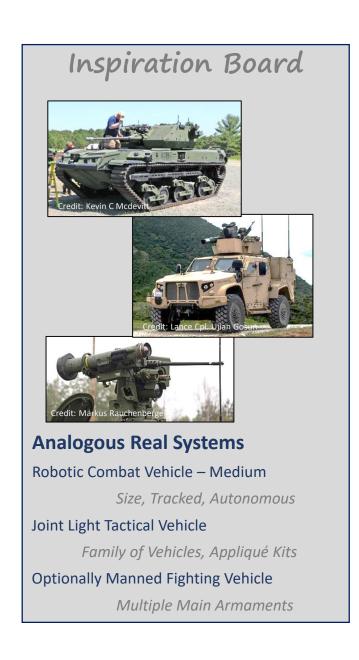
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FlexFile 101 Cerberus Program Overview

Fictional Program Information:

- Service/Commodity: Army Ground Vehicle Program
- Acquisition Pathway: *Major Capability Acquisition (ACAT-I)*
- Program Timeframe:
 - Engineering and Manufacturing Development (EMD)
 - Low Rate Initial Production (LRIP)
- Contract Overview:
 - Single Award FAR 15 Indefinite Delivery / Indefinite Quantity (IDIQ)
 - Firm Fixed Price (FFP) design and production CLINs
 - Cost Plus Fixed Fee (CPFF) Total Package Fielding and Contractor Logistics Support (CLS) CLINs
- Realistic Narrative:
 - Deliverables show cost growth between "Initial" and "Final" submissions. Cost growth can clearly be attributed to software development "issues discovered during program testing"

The appearance of specific weapon systems does not imply or constitute OSD endorsement of a specific system, design, or contractor.



FlexFile 101 Cerberus Program Overview

- Why "Cerberus"?
- From Greek Mythology: Cerberus is Hades' threeheaded guard dog of the underworld



- The Cerberus Autonomous Vehicle has three armaments
 - 30mm turret (provided as Government Furnished Equipment)
 - 50 cal Remote Weapon Station (RWS)
 - Anti-tank, fire-and-forget rocket (e.g., Javelin) mounted to RWS

Cerberus Computer Software Configuration Items (CSCIs)

CSCI ID CSCI Nomenclature

- C1 Sensor Processing
- C2 Autonomous Navigation
- C3 Vehicle Control
- C4 Vehicle Simulator

Cerberus Prime Mission

Product WBS

WBS Code WBS Nomenclature 1.0 Cerberus Autonomous Vehicles 1.1Family of Cerberus Autonomous Vehicle 1.1.1Cerberus Autonomous Vehicle (CAV) 1.1.1.1CAV Integration, Assembly, Test, and Checkout 1.1.1.2 Hull/Frame/Body/Cab 1.1.1.3 System Survivability 1.1.1.4 Turret Assembly 1.1.1.5 Suspension/Steering 1.1.1.6 Vehicle Electronics 1.1.1.7 Power Package/Drive Train 1.1.1.7.1 Power Package 1.1.1.7.1.1 Dressed Engine 1.1.1.7.1.1.1 Engine Block 1.1.1.7.1.1.2 Turbocharger 1.1.1.7.1.1.3 Other Dressed Engine 1.1.1.7.1.2 Transmission 1.1.1.7.2 Drive Train 1.1.1.8 Auxiliary Automotive 1.1.1.9 Fire Control 1.1.1.10 Armament 1.1.1.10.1 30mm Gun 1.1.1.10.2 Remote Weapon Station (RWS) 1.1.1.10.2.1 M2 50-cal / Mk19 Mount 1.1.1.10.2.2 Anti-Tank Missile 1.1.1.10.2.3 Other Remote Weapon Station (RWS) 1.1.1.10.3 Other Armament 1.1.1.11Automatic Ammunition Handling 1.1.1.12 Navigation and Remote Piloting Systems 1.1.1.13Special Equipment 1.1.1.14 Communications 1.1.1.15 CAV Software Release 1.1.1.15.1 Sensor Processing 1.1.1.15.2 Autonomous Navigation 1.1.1.15.3 Vehicle Control 1.1.1.16 Other CAV Subsystems

Based on MIL-STD-881 Appendix G Ground Vehicle Systems







COST ASSESSMENT DATA ENTERPRISE

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The FlexFile

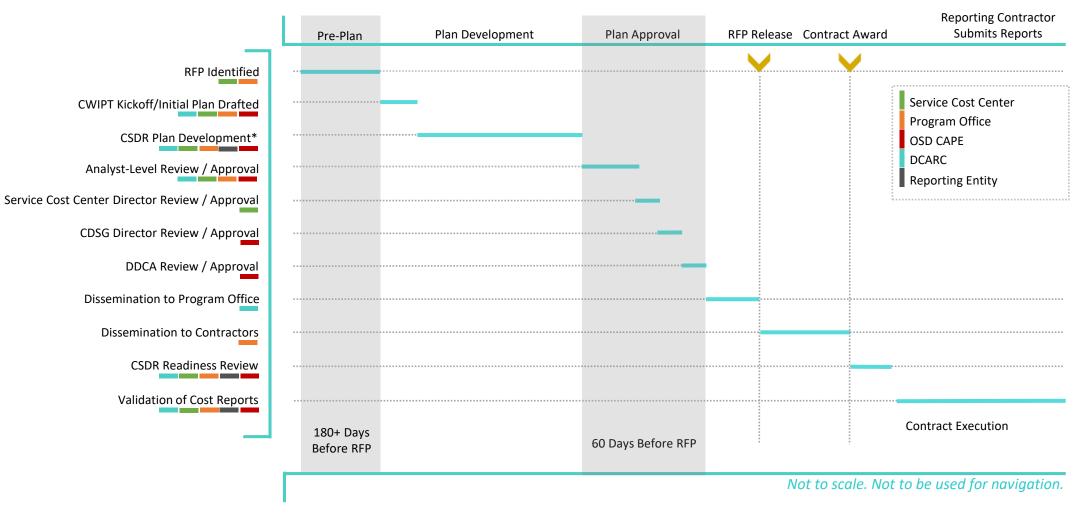
Planning Process

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FlexFile 101 Planning Process Flowchart (ACAT I)





* The reporting entity is involved in the plan development process before contract award if the reporting entity is known (i.e., a sole source environment). Otherwise, the reporting entity is involved in development after contract award.

FlexFile 101 CSDR Plan (DD 2794)



Pg. 1, Metadata	Pg. 2, Reporting	Pg. 3, Events	Pg. 4, Remarks
 Program Information Contract Information Reporting Information 	 Define reporting WBS Indicate where actual and forecast cost data is required Indicate which elements require certain report types 	 Indicate when and which reports are required Indicate the frequency and submission of reports 	• Enter any pertinent remarks about the CSDR Plan that help explain or clarify any of the reports
 Pg. 5, Scope Def Indicate the Order/Lots and End Items that the contractor will be tagging the reported dollars and hours to Require Unit Reporting in box 18c if the CWIPT required unit cost reporting 	 Pg. 6, SRDR Dev Define software releases and CSCIs Link software product size reporting elements to Reporting tab Link software product size submissions to Events tab 	 Pg. 7, SRDR Mx Define software releases Link software product size reporting elements to Reporting tab Link software product size submissions to Events tab 	Pg. 8, SRDR ERP • Similar to Mx but for ERP • Only used for Defense Business Systems (DBS) Pg. 9, Tech Rqts • Refined Contract-Spectrechnical Parameters

 Commodity and Phase Specific Technical Parameters

FlexFile 101

DD 2794 (CSDR Plan), Pg 1 (Metadata)

Program and effort

Contractor and contract

Reporting detail

Metadata provides the basis of the "who" and the "what" is to be captured in the CSDR plan

	COST AND SOFTWARE DATA REPORTING PLAN	OMB No. 0704-0188
adata)	The public reporting burden for this collection of information is estimated to average 8 hours per response, including the time for reviewing instructions, search needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of in Department of Defense, Executive Services Directorate (070-4788). Responses that notwithatending any other provision of law, no person a or information if it does not display a currently viaid Diffect onto Inumer. PLEASE to NOT RETURN YOUR COMPLETE FORM TO THE ABOVE ORGANIZATION.	ing existing data sources, gathering and maintaining the data information, including suggestions for reducing the burden, to all be subject to any penalty for failing to comply with a collection
	1a. PROGRAM NAME Carberra Autonomous Vehicle Program the PHASE/MILESTONE (check all that apply) Pre-A Pre-A	
	X S X C-LRIP C-FRP C-FRP OAS S Ic. PRIME MISSION PRODUCT C	
	Cerberus Autonomous Vehicles 1d. ACQUISITION CATEGORY (ACAT)	
	Pre-ACAT & ACAT ((MDAP) ACAT I (MDAP) ACAT II (MDAP) ACAT III ACAT III ACAT III	
	2. COMMODITY TYPE Ground Vehicle System	
	3. PLAN ITERATION TYPE INTIAL X Revision 4. CURRENT SUBMISSION DATE (YYYYMMDD)	
	4. CORRENT SUBMISSION DATE (1111 IMMIDD) 20180530 5. LAST APPROVED PLAN DATE (YYYYIMMDD)	
	20170228	
	Ga. GOVERNMENT PLAN POINT OF CONTACT (POC) NAME (Last. First. M.) Deeare, Cezar 66. ADDRESS (Include ZIP Code) 5000 Manual Ave. Solite 04	
	Diarria of Columbia DC 20201-1800 6c. TELEPHONE NUMBER (Include Area Code) (555) 123-4567 6c. E-MAL ADDRESS	
	Cezar. Deeare @programolfice.mil	
	7. PLAN TYPE GOVERNMENT X CONTRACT (PRIME) CONTRACT (SUB)	
	8. PLAN GOVERNMENT PREPARING ORGANIZATION Cerberus Autonomous Vehicle Program Office	
	9a. CONTRACTOR NAME/ADDRESS LI REPORTING ORGANIZATION NAME Con Trader, LLC	
_	ii. D/VISIOI NAME Autoromous Vehicle Division	
	iii. LOCATION 57th StreetSuite 123New York, NY 10019	
	N. CONTRACTOR BUSINESS DATA REPORT (CBDR 1921-3) REQUIREMENT:	
	9b. CONTRACT NUMBER (List all that apply, separated by commas) Z123D4-15-D-7890	
	9c. APPROPRIATION (check all that apply) X ROT&E X PROCUREMENT ORM FMS FMS WCF OTHER	
	10a. APPROVED PLAN NUMBER Z-99-C1(R2)	
	10b. APPROVED PLAN REVISION NUMBER 3	
	10: APPROVED PLAN REQUIREMENTS X AT COMPLETION COSTS FOR STANDARD FUNCTIONAL CATEGORIES (FlexFile or Legacy) X AT COMPLETION COSTS FOR RECURRING/NONRECURRING (FlexFile orly) X TCOMPLETION COSTS FOR RECURRING/NONRECURRING (FlexFile orly) To complete the test of the test of	
	10d. COST REPORT TYPE FLEXFILE LEGACY DD 1921 SERIES	

FlexFile 101

DD 2794 (CSDR Plan), Pg 2 (Reporting)

			COST AND SOFTWARE	DATA REPO	DRTING PLAN			•			
		11. WORK BREAKDOWN STRUCTURE (WBS)		12. COST				13. TECHNICAL DATA			
				1 1 50 107		1.1.50.40%	540/540	a. QUANTITY		b. SRDR	C. MAINT. &
a. WBS CODE	b. WBS LEVEL	c. WBS ELEMENT NAME	a. ACTUALS TO DATE (ATD)	b. LEGACY 1921-1	c. LEGACY 1921-2	d. LEGACY 1921-5	e. EAC/FAC (See item 10d)	i. QUANTITY DATA	ii. GFE QUANTITY	D. SRDR FORMATS	REPAIR PARTS
0	1	Cerberus Autonomous Vehicles									
1	2	Family of Cerberus Autonomous Vehicle									
1.1	3	Cerberus Autonomous Vehicle (CAV)						X			
1.1.1	4	CAV Integration, Assembly, Test, and Checkout	X				X	X			
1.1.2	4	Hull/Frame/Body/Cab	X				X	X			
1.1.3 1.1.4	4	System Survivability Turret Assembly	X				x	X			
1.1.4	4	Suspension/Steering	X				X	X			
1.1.5	4	Vehicle Electronics	X				X	x			
1.1.7	4	Power Package/Drive Train	~ ~				~	x			
1.1.8	4	Auxiliary Automotive	x				X	X			
1.1.9	4	Fire Control	x				Х	x			
1.1.10	4	Armament						X			
1.1.10.3	5	Other Armament	x				Х	Х			
1.1.11	4	Automatic Ammunition Handling	X				Х	X			
1.1.12	4	Navigation and Remote Piloting Systems	X				Х	х			
1.1.13	4	Special Equipment	x				Х	X			
1.1.14	4	Communications	x				X	X			
1.1.15	4	CAV Software Release	X							X	
1.1.15.1	5	Sensor Processing	X				X			X	
1.1.15.2	5	Autonomous Navigation Vehicle Control	X				x			X X	
1.1.15.3	5	Other CAV Subsystems	X				x	x		~	
1.2	3	Variant 2 - UNUSED	x				x	x			
1.2	3	Equipment Kits	X				x	x			
2	2	Secondary Vehicle	x				X	x			
3	2	Systems Engineering									
3.1	3	Software Systems Engineering	x				Х			х	
3.2	3	Integrated Logistics Support (ILS) Systems Engineering	x				Х				
3.3	3	Cybersecurity Systems Engineering	x				X				
3.4	3	Core Systems Engineering	X				Х				
3.5	3	Other Systems Engineering	x				х				
4	2	Program Management									
4.1	3	Software Program Management	X				X			x	
4.2	3	Integrated Logistics Support (ILS) Program Management	X				X				
4.3	3	Cybersecurity Management	X				x				
4.4 4.5	3	Core Program Management Other Program Management	X				x				

If the CWIPT is requiring FlexFiles:

- Indicate the <u>LOWEST LEVEL</u> of the WBS in column 12a (ACTUALS TO DATE (ATD)) where actual cost data is required
- Indicate <u>EVERY</u> element for column 12e (AT COMPLETION COSTS) where forecasted data is required**
- Indicate which elements require Quantity Data Report data in box 13a

*WBS continues past 1.4 with MILSTD881F Appendix G alignment

^{**}FAC level is up to CWIPT discretion

FlexFile 101 DD 2794 (CSDR Plan), Pg 3 (Events)

	COST AND SOFTW	ARE DATA REPORTING PLAN						
	14. CSDR SUBMISSION EVENTS							
a. EVENT ID	b. DATA REPORT(S)	C. SUBMISSION EVENT NAME	d. REPORT CYCLE	e. AS OF DATE (YYYYMMDD)	f. DUE DATE (YYYYMMDD)			
1	Cost and Hour Report (FlexFile), Quantity Data Report	Contract Award	Initial	20150401	20150701			
2	Technical Data Report	Contract Award	Initial	20150401	20150701			
3	SRDR Development	Contract Award	Initial	20150401	20150701			
4	Cost and Hour Report (FlexFile), Quantity Data Report	Annual Submission 2016	Interim	20160430	20160630			
5	Technical Data Report	Annual Submission 2016	Interim	20160430	20160630			
6	SRDR Development	Annual Submission 2016	Interim	20160430	20160630			
7	Cost and Hour Report (FlexFile), Quantity Data Report	EMD Phase Complete	Interim	20170331	20170531			
8	Technical Data Report	EMD Phase Complete	Interim	20170331	20170531			
9	SRDR Development	EMD Phase Complete	Interim	20170331	20170531			
10	Cost and Hour Report (FlexFile), Quantity Data Report	Annual Submission 2018	Interim	20180430	20180630			
11	Technical Data Report	Annual Submission 2018	Interim	20180430	20180630			
12	SRDR Development	Annual Submission 2018	Interim	20180430	20180630			
13	Maintenance and Repair Parts Data Report	Annual Submission 2018	Interim	20180430	20180630			
14	Cost and Hour Report (FlexFile), Quantity Data Report	Annual Submission 2019	Interim	20190430	20190630			
15	Technical Data Report	Annual Submission 2019	Interim	20190430	20190630			
16	SRDR Development	Annual Submission 2019	Interim	20190430	20190630			
17	Maintenance and Repair Parts Data Report	Annual Submission 2019	Interim	20190430	20190630			
18	Cost and Hour Report (FlexFile), Quantity Data Report	Contract Complete	Final	20190930	20191130			
19	Technical Data Report	Contract Complete	Final	20190930	20191130			
20	SRDR Development	Contract Complete	Final	20190930	20191130			
21	Maintenance and Repair Parts Data Report	Contract Complete	Final	20190930	20191130			

> FlexFile and Quantity Data Reports will be submitted together

FlexFiles and Quantity Data Reports will typically be submitted annually (but dependent on CWIPT)

FlexFile 101 DD 2794 (CSDR Plan), Pg 4 (Remarks)



COST AND SOFTWARE DATA REPORTING PLAN

15. REMARKS

FAC vs EAC

The checkmarks for EAC/FAC in column 12e at the WBS level shall be reported as "Forecast at Completion" (FAC). The Forecast At Completion (FAC) required here is not subject to the standards established in ANSI/EIA-748 guideline #27 (Estimate at Complete); therefore, the FAC does not need to be, but may be, derived from Industry Earned Value Management (EVM) processes.

NON-RECURRING/RECURRING DEFINITIONS

Recurring and Non-Recurring Costs required for all levels:

WBS Index and Dictionary

The WBS Dictionary is a living document and must match the technical content, cost content, and work content of each end item (see Block 17) for all WBS elements for each Cost and Hour (FlexFile) submission. The dictionary shall contain a disclosure statement detailing any differences between the CSDR reporting methodology and the reporting entity's Cost Accounting Standards. The dictionary shall include a section detailing how parts are procured under this contract and any limitations of the parts procurement cost data or allocation of cost data for the WBS element.

The reporting entity must maintain and update the WBS Dictionary throughout the life of the contract, IAW DI-FNCL-82162, if changes to the WBS occur, the reporting entity shall annotate and track changes by adding the "As of Date" of the submitted FlexFile report and indicate the changes to the WBS Index and Dictionary Definitions.

For WBS elements identified in block 11 of the CSDR plan that is not within the contract's scope of work, the reporting entity shall report in the dictionary that "This CSDR WBS element is not associated with this contract's scope of work", and zero costs will be associated for ATD and FAC for these WBS elements.

END ITEMS/ORDER LOTS SCOPE

Block 16 Orders/Lots is meant to capture the discrete Delivery Orders/Task Orders exercised on the contract. If a Delivery Order/Task Order is exercised on the contract and the CSDR plan has not been updated, it is the Reporting Entity's responsibility to still submit the dollars and hours in the FlexFile tagged to the appropriate Delivery Orders/Task Orders/Task Orders. The CSDR plan will be revised accordingly to include all exercised Delivery Orders/Task Orders.

COST AND HOUR REPORT UNIT/SUBLOT REPORTING

The Reporting Entity is required to provide unit or sublot (specify) reporting for any given Order/Lot and End Item as outlined in block 18 of the DD Form 2794. If Unit Reporting is selected in item 18c (Unit Reporting), it is expected that all touch labor costs and hours that are associated with the discrete units or sublots be tagged as Touch Manufacturing or Touch Maintenance as defined in Data Group E, Item 7.

QUANTITY REPORTING

a. If the quantity for a given element differs from the quantity reported for the full system, provide a comment in the WBS Element Remarks section.

b. The Reporting Entity shall provide meaningful quantity information lower than the summary level in the remarks for WBS elements Peculiar Support Equipment, Common Support Equipment, and Initial Spares and Repair Parts, if applicable.



CWIPT emphasis / Contractor clarification

FlexFile 101 DD 2794 (CSDR Plan), Pg 5 (Scope Def)

	COST AND SOFTWARE D	ATA REPORTING PLAN				
	INTRA-CONTRACT SCOPE	REPORTING DEFINITION				
16. ORDERS/LOTS						
a. ID	b. NAME c. PHASE/MILESTONE					
Z123D4-15-F-0001	Delivery Order 1 - EMD Phase	Delivery Order 1 - EMD Phase B				
Z123D4-17-F-0002	Delivery Order 2 - LRIP 1		C-LRIP			
Z123D4-18-F-0003	Delivery Order 3 - LRIP 2		C-LRIP			
Z123D4-XX-F-0004n	Delivery Order 4n					
7. END ITEMS						
a. ID	b. NA	ME				
1_common	Common					
2_GPV	General Purpose Variant					
3_RV	Reconnaissance Variant					
4_SSV	Supply Support Variant					
5_cbk	Combat Bumper Kit					
6_cjak	Countermeasure Jammer Attachment Kit					
7_wk	Winch Kit					
8. OPTIONAL REQUIREMENTS						
a. ORDER/LOT ID	b. END ITEM ID	c. UNIT REPORTING (X if applicable)	d. SEQUENCING (X if applicable)			
Z123D4-15-F-0001	2_GPV	X	x			
Z123D4-15-F-0001	3_RV	X	x			
Z123D4-15-F-0001	4_SSV	X	x			
Z123D4-17-F-0002	2_GPV	X	x			
Z123D4-17-F-0002	3_RV	X	x			
Z123D4-17-F-0002	4_SSV	X	x			
Z123D4-18-F-0003	2_GPV	X	x			
Z123D4-18-F-0003	3_RV	X	X			
Z123D4-18-F-0003	4_SSV	x	x			
Z123D4-XX-F-0004n	2_GPV	x	x			
Z123D4-XX-F-0004n	3_RV	X	x			
Z123D4-XX-F-0004n	4_SSV	Х	x			

If the CWIPT is requiring FlexFiles, the Scope Def page is required

- Indicate the Order/Lots and End Items that the contractor will be tagging the reported dollars and hours to
- Require Unit Reporting in box 18c if the CWIPT required unit cost reporting, similar to the 1921-2 requirement
- Indicate that Unit Reporting is required in the FlexFile instead of a 1921-2
- See the implementation guide for more information regarding these two fields

FlexFile 101 Order/Lot and End Item Examples



What is Order/Lot?

Order/Lot field identifies different purchase orders on the same contract.

They will be identified by the CWIPT during the planning process in block 16.

Some examples are detailed below...

ID	Order/Lot	ID	Order/Lot
1	Lot 1	1	LRIP 1
2	Lot 2	2	LRIP 2
ID	Order/Lot	ID	Order/Lot
1	DO 001	1	TO 001
2	DO 002	2	TO 002
ID	Order/Lot	ID	Order/Lot
1	Prelim Design	1	FY17
2	Detailed Design	2	FY18

What is End Item?

End Items are uniquely identified platforms, models, versions, flights, variants, kits, services, or sustainment activities that is delivered.

They will be identified by the CWIPT during the planning process in block 17.

Some examples are detailed below...

End Item		ID	End Item
Variant A		1	Hull 100
Variant B		2	Hull 101
End Item		ID	End Item
Kit 1		1	Activity x
Kit 2		2	Activity y
End Item			
F-120 A			
F-120 B			
	Variant A Variant B End Item Kit 1 Kit 2 End Item F-120 A	Variant A Variant B End Item Kit 1 Kit 2 End Item F-120 A	Variant A1Variant B2End ItemIDKit 11Kit 22End ItemF-120 A

Relationship with Submission Events

A single FlexFile submission will contain data for all of the identified End Items and Order/Lots as opposed to requiring as many submissions as there are End Items and Order/Lots.

For example, if there are five lots on a contract, the Legacy CCDRs would have been given **five submissions** for each lot.

In the FlexFile, those five lots would be detailed in the Order/Lot table (depicted below) and the data for each will be provided in a <u>single submission</u>.

ID	Order/Lot
1	Lot 1
2	Lot 2
3	Lot 3
4	Lot 4
5	Lot 5

ID is a product of the data model used to ingest the FlexFile data in CADE. Both tables would have unique IDs to identify the End Items and Order/Lots.

FlexFile 101 Order/Lot Planning

FlexFile Plan – Order/Lot

ID	Order/Lot
1	LRIP 1
2	LRIP 2

FlexFile Plan – Submission Events

Event ID	Data Reports	Submission Event Name	As of Date	Due Date
1	FlexFile, Quantity	Annual Report #1	1/1/2019	3/2/2019
2	FlexFile, Quantity	Annual Report #2	1/1/2020	3/2/2020

Legacy Plan – Submission Events

Event ID	Data Reports	Submission Event Name	As of Date	Due Date
1	CWBS Dictionary	CWBS Dictionary	1/1/2018	3/2/2018
2	1921, 1921-1	LRIP 1 Report	1/1/2019	3/2/2019
3	1921, 1921-1	LRIP 2 Report	1/1/2020	3/2/2020

- Utilizing the Order/Lot table in the FlexFile plan results in the same data as requiring a submission, say, per LRIP (same applies to all Purchase Orders, including Delivery Orders)
- Dollars and hours will be tagged to the discrete LRIPs using the Order/Lot data field
- Since the WBS definitions are part of the FlexFile DID, there is no need to require it on the FlexFile plan

FlexFile 101 End Item Planning

FlexFile Plan – End Item

ID	End Item
1	Variant A
2	Variant B
3	Variant C

FlexFile Plan – Submission Events

Event ID	Data Reports	Submission Event Name	As of Date	Due Date
1	FlexFile, Quantity	Contract Completion	1/1/2019	3/2/2019

Legacy Plan – Submission Events

Event ID	Data Reports	Submission Event Name	As of Date	Due Date
1	CWBS Dictionary	CWBS Dictionary	1/1/2018	3/2/2018
2	1921, 1921-1	Variant A Report	1/1/2019	3/2/2019
3	1921, 1921-1	Variant B Report	1/1/2019	3/2/2019
4	1921, 1921-1	Variant C Report	1/1/2019	3/2/2019

- Utilizing the *End Item* table in the FlexFile plan results in the same data as requiring a submission per *Variant*
- Dollars and hours will be tagged to the discrete
 Variants using the End Item data field
- Since the WBS definitions are part of the FlexFile DID, there is no need to require it on the FlexFile plan

FlexFile 101 End Item Planning

FlexFile Plan – End Item

ID	End Item
1	Variant A
2	Variant B

FlexFile Plan – Reporting

WBS Code	WBS Level	WBS Name
1.0	1	Ground Vehicle
1.1	2	Family of Vehicles
1.1.1	3	Subsystem 1n

Legacy Plan – Reporting

WBS Code	WBS Level	WBS Name	
1.0	1	Ground Vehicle	
1.1	2	Family of Vehicles	
1.1.1	3	Variant A	
1.1.1.1	4	Subsystem 1n	
1.1.2	3	Variant B	
1.1.2.1	4	Subsystem 1n	

- Utilizing the *End Item* table results in the same information as breaking out the WBS by *Variant*
- Dollars and hours will be tagged to the discrete
 Variants using the End Item data field
- Since the WBS is <u>NOT</u> broken out by *Variant*, the CWIPT needs to ensure that the definitions provided in the FlexFile have unique *Variant* detail

FlexFile 101QDR Planning Considerations



Since the Quantity Data Report (QDR) is a separate requirement, it can be explicitly planned for as part of the CSDR Plan.

- The CWIPT must request which WBS elements they expect to receive quantity information for.
- Quantities at completion will then be reported for the combinations of applicable WBS elements, Order/Lot tags, and End Item tags

The FlexFile and Quantity Data Report must be submitted as part of the same submission event.

If it is determined by the CWIPT that there is not value in asking for quantity data, then the Quantity Data Report does not need to be required. When deciding what quantity information to require, an analyst should consider...

- 1. The unique combinations of WBS element, Order/Lot tag, and End Item tag
- 2. What the quantity value would represent (i.e. would the value be standardized)

Note: The guidance above is only applicable for quantities at completion. Quantities in process and completed to date are only reported for the unique combinations of WBS element and Order/Lot tag.

FlexFile 101 QDR Production Example

Scenario:

- Two delivery orders providing complete aircraft systems to the government
- The Order/Lot tags will be DO1 and DO2
- The total system has two variants
- The End Item tags will be VarA and VarB

Quantity Data Report:

- Requirement should be checked off for the applicable HW subsystems in addition to 1.0 to ensure sufficient quantities are reported
- If complete systems are not being delivered, then checking off 1.0 may be misleading since the number reported would be comprised of two or more different subsystems (i.e. not standardized)



	Α	В	С	D			
1	1 Quantities At Completion						
2	Order or Lot ID	End Item ID	WBS Element ID	Delivered Quantity At Completion			
3	DO1	VarA	1.0 - Aircraft System	10			
4	DO1	VarB	1.0 - Aircraft System	10			
5	DO2	VarA	1.0 - Aircraft System	15			
6	DO2	VarB	1.0 - Aircraft System	15			
7	DO1	VarA	1.2.3 - Propulsion	20			
8	DO1	VarB	1.2.3 - Propulsion	20			
9	DO2	VarA	1.2.3 - Propulsion	30			
10	DO2	VarB	1.2.3 - Propulsion	30			

Would want to know the relationship between the total system and certain subsystems (i.e. an aircraft is comprised of two propulsion systems)

30

FlexFile 101 QDR Sustainment Example

Scenario:

- Two task orders that are providing some services for an aircraft system
- The Order/Lot tags will be TO1 and TO2
- The aircraft system has two variants and there is a requirement to see how many of each variant were serviced
- The End Item tags will be VarA and VarB

Quantity Data Report:

- Need to decide whether it makes sense to receive a quantity at any other level of the WBS
- An analyst would need to make clear what the quantity should represent (e.g. number of vehicles serviced)
- Any detail regarding the types of services or repair parts would come through in a different report (e.g. –M/R), unless it is defined in the WBS

	A	В	С	D		
1	Quantities At Completion					
2	Order or Lot ID	End Item ID	WBS Element ID	Delivered Quantity At Completion		
3	T01	VarA	1.0 - Sustainment	1		
4	T01	VarB	1.0 - Sustainment			
5	то2	VarA	1.0 - Sustainment	1		
6	то2	VarB	1.0 - Sustainment	1		
V	Vould need to ma	ake sure it is clear	what the value repo	orted represents		



FlexFile 101 Planning Considerations Summary



Figure 1 - DD Form 2794, Supp. (SCOPE DEF)

The following considerations should be included in addition to

existing CSDR planning guidance

- Define desired frequency of FlexFiles
- Define Order/Lot and End Item (see Figure 1)
- Unit Reporting and Sequencing requirements when applicable
- □ Level of FACs and if broken out by Nonrecurring/Recurring and the Standard Functional Category
- Quantity Data Report requires that reporting elements are selected and that GFE are properly identified (see Figure 2)
- Quantity Data Report also requires that sequencing be selected by Order/Lot and End Item

COST AND SOFTWARE DATA REPORTING PLAN

INTRA-CONTRACT SCOPE REPORTING DEFINITION

a. ID	b. NAME	c. PHASE/MILESTONE
1	LRIP 1	C-LRIP
2	LRIP 2	C-LRIP
17. END ITEMS		
a. ID	b. NAME	
1	Variant A	

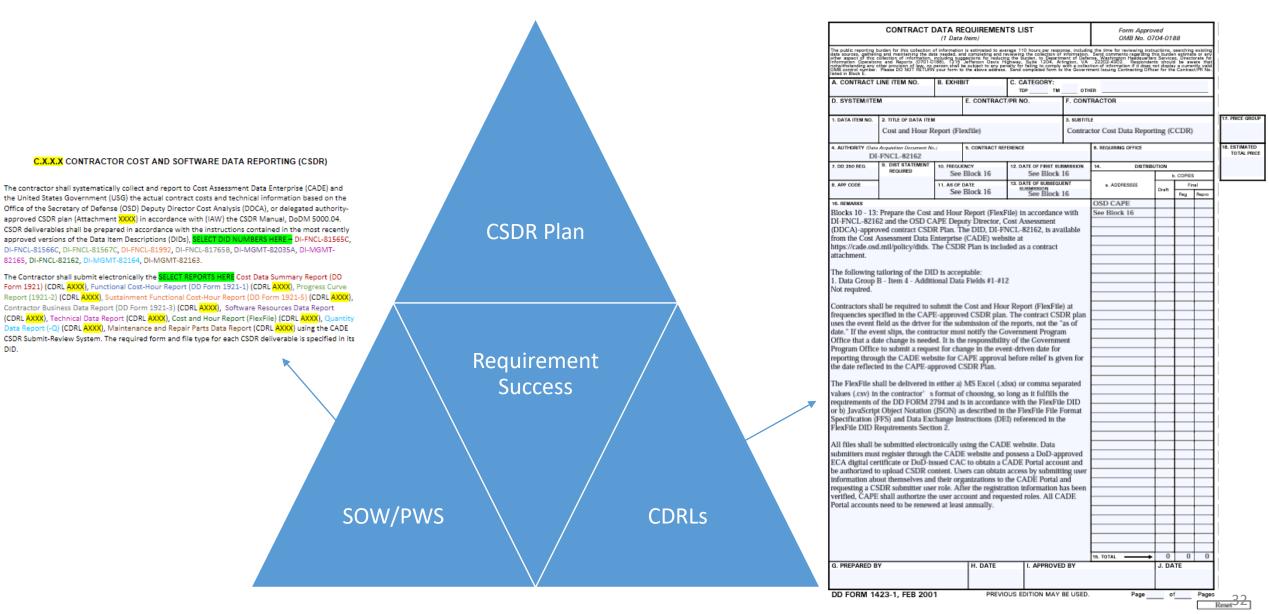
Figure 2 - DD Form 2794, Pg 1 (REPORTING)

	b. WBS LEVEL	C. WBS ELEMENT NAME		a. QUANTITY			
a. WBS CODE			a. ACTUALS TO DATE (ATD)	i. QUANTITY Data	ii. GFE QUANTITY	b. SRDR FORMATS	C. MAINT. & REPAIR
1.0	1	Ground Vehicle System		Х			
1.1	2	Family of Vehicles		Х			
1.1.1	3	Vehicle Integration, Assembly, Test and Checkout	Х	Х			
1.1.2	3	Hull/Frame/Body/Cab	Х	Х			
1.1.3	3	System Survivability	Х	Х			
1.1.4	3	Turret Assembly	X	Х			

CSDR Process

FlexFile 101 FlexFile Requirement Reference Documents







COST ASSESSMENT DATA ENTERPRISE

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Submission and Validation

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FlexFile 101 Submission/Validation Considerations



Submission Considerations

- The starting point for submission allows industry to submit the reports in an Excel Template files instead of the JSON Data Model.
- The data model is final and industry may choose to submit according to the JSON Data Model.
- The reporting entity is recommended to convert Excel Template Files to JSON files using cPet tool to ensure accordance with Data Exchange Instructions (DEI) and File Format Specifications (FFS)

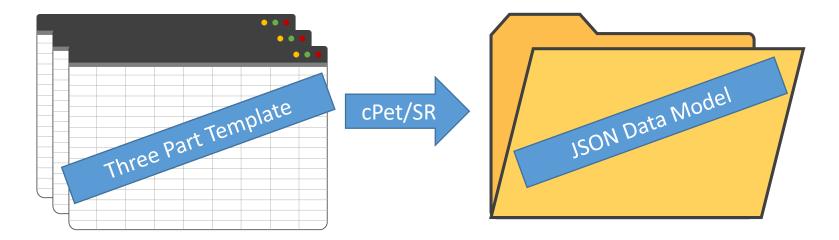
Validation Considerations

- **DCARC** will ensure compliance with
 - DID
 - DEI/FFS
 - □ Approved CSDR plan
 - □ Equivalent of Legacy 1921 validation rules
- **External stakeholders** may also consider any of the additional insight provided in the FlexFile format when conducting their reviews.

FlexFile 101 FlexFile Submission Process



If using the Excel Template Files the process follows as below:



NOTE: If available, outside tools can be utilized to directly export JSON files that are in accordance with DEI/FFS

Guidance and templates outlining the options can be found at https://cade.osd.mil/policy/flexfile-quantity

FlexFile 101 FlexFile DEI/FFS



Excel format and XML schema no longer the final version of CCDRs. FlexFile and Quantity Data Report files to convert to JSON or validate correctly in CADE must be in accordance with:

- Data Exchange Instructions (DEI): Provides specific direction for populating the different data model inputs for each required Table, Entity, and Fields and details expected enumerations for selected inputs (e.g. contract type).
- File Format Specifications: Intended as a technical reference for computer programmers implementing software to support the exchange of data (i.e. tables, nullable fields, key constraints, enumerations, singletons, strings, and structures).

FlexFile DEI OrdersorLots Example

2.1.3 OrdersOrLots

Table	OrdersOrLots	OrdersOrLots		
Entity	OrderOrLot	OrderOrLot		
Fields	Name	Use Notes		
	ID	Provide the ID for the order/lot.		
	Name	Provide the name of the order/lot.		
	PhaseOrMilestoneID	Program the phase/milestone.		
	CustomerName	Provide the customer name.		
	ContractTypeID	Provide the contract type.		
	ContractPrice	Provide the contract price.		
	ContractCeiling	Provide the contract ceiling.		
	PeriodOfPerformance_StartDate	Provide the period of performance start date.		
	PeriodOfPerformance_EndDate	Provide the period of performance end date.		
	AppropriationTypeID	Provide the appropriation type.		
Use Notes				

FlexFile FFS OrdersorLots Example

2.2.3	OrdersOrLots

Table	OrdersOrLots				
Entity	OrderOrLot				
Fields	Name	Data Type	Nullable		
	ID	StringID	No		
	Name	String	No		
	PhaseOrMilestoneID	StringID	Ye		
	CustomerName	String	Ye		
	ContractTypeID	StringID	Ye		
	ContractPrice	Decimal	Ye		
	ContractCeiling	Decimal	Ye		
	PeriodOfPerformance_StartDate	Date	Ye		
	PeriodOfPerformance_EndDate	Date	Ye		
	AppropriationTypeID	StringID	Ye		
Primary Key	ID				
Foreign Keys	PhaseOrMilestoneID: PhaseOrMilestoneEnum(ID)				
	ContractTypeID: ContractTypeEnum(ID)				
	AppropriationTypeID: AppropriationTypeEnum(ID)				
Use Constraints					

Complete DEI/FFS documents for FF and QDR on CADE public site



COST ASSESSMENT DATA ENTERPRISE

Data and Analytics

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FlexFile Data Access

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FlexFile 101
Outline

Data & Analytics: Single Submission

□ Highlights different download options associated with a single FlexFile submission

Data & Analytics: Bulk Downloads

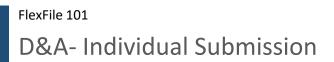
□ Highlights different download options associated with bulk downloading FlexFiles

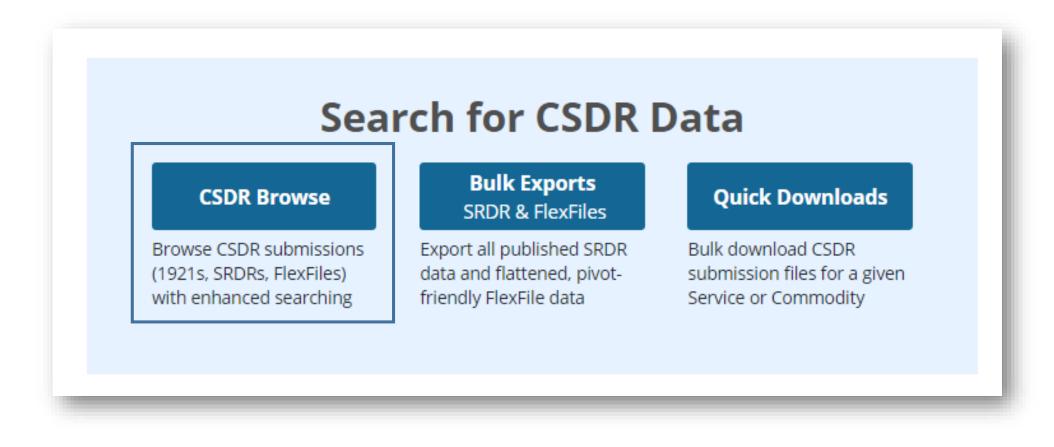
Potential Use Cases of FlexFile Exports

Highlights different use cases with each file type

Data & Analytics: Single Submission







Enter CSDR Browse

	企 Submissions (6)	SCCDR R	eports (18) 🛛 💩 SRD	PR Data										
~	Program	Model	Contract Task	Weapon Sys Type (Contract)	Order/Lot	As Of	Contract Number	Pri/Sub	Reporting Contractor	Submission Event	Report Type	Report Cycle	# Rpts	# Files
>	Cerberus	Cerberus Autonom Vehicle	Cerberus EMD, LRIP 1-2	Light Armored Vehicle		4/1/2015	Z123D4-15- D-7890	Prime	Con- Tractor, LLC	Contract Award	FlexFile, Quantity Data Report	Initial	0	3
>	Cerberus	Cerberus Autonom Vehicle	Cerberus EMD, LRIP 1-2	Light Armored Vehicle		4/30/2016	Z123D4-15- D-7890	Prime	Con- Tractor, LLC	Annual Submission 2016	FlexFile, Quantity Data Report	Inte	0	2
7	Cerberus	Cerberus Autonom Vehicle	Cerberus EMD, LRIP 1-2	Light Armored Vehicle		3/31/2017	Z123D4-15- D-7890	Prime	Con- Tractor, LLC	EMD Phase Complete	FlexFile, Quantity Data Report	Inte	0	2
>	Cerberus	Cerberus Autonom Vehicle	Cerberus EMD, LRIP 1-2	Light Armored Vehicle		4/30/2018	Z123D4-15- D-7890	Prime	Con- Tractor, LLC	Annual Submission 2018	FlexFile, Quantity Data Report	Inte	0	2
											FlexFile.			•

Select 1 Submission Event to see the corresponding downloads associated with a single Submission Event

Program:	Cerberus	Phase:	PROD	
MIL-STD:	SURFACE VEHICLE	Contract Task:	Cerberus EMD, LRIP 1-2	
Contract #:	Z123D4-15-D-7890	Sub Event:	EMD Phase Complete	
Reporting Ctr:	Con-Tractor, LLC	Report Cycle:	Interim	
Division:	Autonomous Vehicle Division	As Of Date:	03/31/2017	
Location:	New York	Plan #:	Z-99-C1(R) 📄	
Prime/Sub:	Prime	Submission ID:	25532	
Submission Files File Name		File Type	Exports	Created Date
File Name	mplete_quantity.zip	File Type Quantity Data Report	Exports	Created Date 02/03/2022

📥 Download All

File Name	File Type E		Exports			ed Date	
🖹 🖹 EMD Phase Complete_quant	ity.zip Q	Quantity Data Report				02/03/2022	
🖹 🖹 EMD Phase Complete_flexfile	e.zip Fl	exFile	⊞ E	Export FF Pivot	Data	02/03	/2022
arsed 1921-Series Reports							
	Derived From	As Of Date	Subt	otal, At Com	olete (\$k)	% Complete	Actions
	Derived From	As Of Date	Subt	otal, At Comp Rec	blete (\$k) Tot	% Complete	0
arsed 1921-Series Reports Report Name Delivery Order 1 - EMD Phase	Derived From EMD Phase Complete_flexfile.zip EMD Phase Complete_quantity.zip	As Of Date 03/31/2017		-		% Complete	

FlexFile 101

D&A- Individual Submission

1. Quantity Excel Template

- Excel representation of the Quantity data model and will include all the information associated with the Quantity File
- This will include all the Quantity File tables and the structure of this excel will not change

2. FlexFile Excel Template

- Excel representation of the FlexFile data model and will include all the information associated with the FlexFile
- □ This will include all the FlexFiles tables and the structure of this excel will not change

3. Export FF Pivot Data

- Contains ONLY Actual To Date (ATD) data in a denormalized structure so the user has the capability to pivot to the ATD Data
- This will contain all the lower level data associated with the FlexFiles
- This data is in a zipped file with .csv data and a predefined excel template

4. 1921 Formatted File

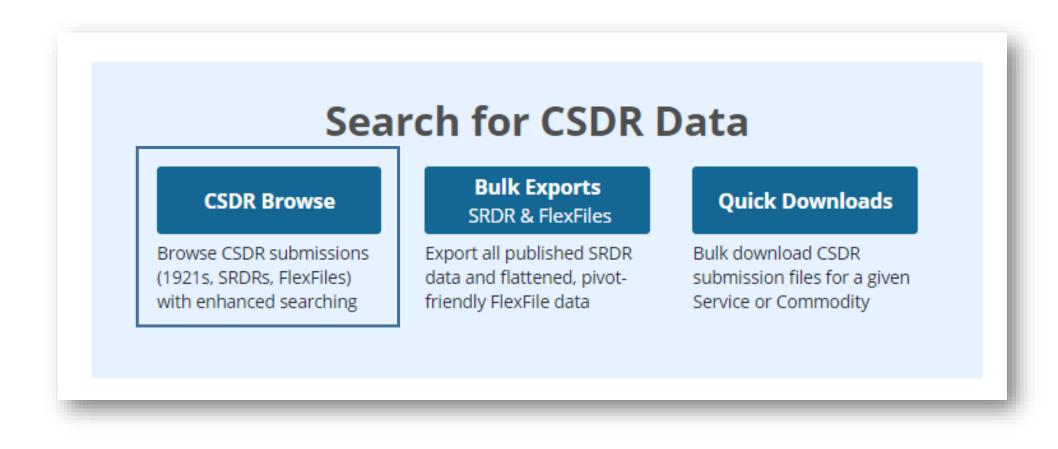
This a 1921 formatted excel representation of an *individual* Order or Lot in a FlexFile and Quantity File

5. 1921 Flat File formatted

This a 1921 flat excel representation of an *individual* Order or Lot in a FlexFile and Quantity File

Data & Analytics: Bulk Downloads





Enter CSDR Browse

FlexFile 101 D&A- Bulk Downloads

	C Submissions (6)) 1.	💩 SRDR Da	ta						◀ Page	1 of 2 🕨
~	Report Name	Program	Model	Contract Task	As Of	Contract Number	Pri/Sub	Reporting Contractor	Submission Event	Report Type	Report Cycle
~	Delivery Order 1 - EMD Phase	Cerberus	Cerberus Autonomous Vehicle	Cerberus EMD, LRIP 1-2	4/1/2015	Z123D4-15-D- 7890	Prime	Con-Tractor, LLC	Contract Award	FlexFile, Quantity Data Report	Initial
~	Delivery Order 2 - LRIP 1	Cerberus	Cerberus Autonomous Vehicle	Cerberus EMD, LRIP 1-2	4/1/2015	Z123D4-15-D- 7890	Prime	Con-Tractor, LLC	Contract Award	FlexFile, Quantity Data Report	Initial
~	Delivery Order 2 - LRIP 2	Cerberus	Cerberus Autonomous Vehicle	Cerberus EMD, LRIP 1-2	4/1/2015	Z123D4-15-D- 7890	Prime	Con-Tractor, LLC	Contract Award	FlexFile, Quantity Data Report	Initial
~	Delivery Order 1 - EMD Phase	Cerberus	Cerberus Autonomous Vehicle	Cerberus EMD, LRIP 1-2	4/30/2016	Z123D4-15-D- 7890	Prime	Con-Tractor, LLC	Annual Submission 2016	FlexFile, Quantity Data Report	Inte
~	Delivery Order 1 - EMD Phase	Cerberus	Cerberus Autonomous Vehicle	Cerberus EMD, LRIP 1-2	3/31/2017	Z123D4-15-D- 7890	Prime	Con-Tractor, LLC	EMD Phase Complete	FlexFile, Quantity Data Report	Inte
			Corborus							ElayEila	•
ws p	oer page: 10 🗸							Export CCDR D	ata Download Source F	iles Export	: Metadata

□ Select up to 500 CCDR Reports to Exports

FlexFile 101 D&A- Bulk Downloads Search for CSDR Data **Bulk Exports Quick Downloads CSDR Browse** □ Enter Bulk Exports: SRDR & SRDR & FlexFiles Browse CSDR submissions Export all published SRDR Bulk download CSDR FlexFiles submission files for a given (1921s, SRDRs, FlexFiles) data and flattened, pivotwith enhanced searching friendly FlexFile data Service or Commodity **Bulk Exports** CUI // PROPIN // FEDCON Defense contractor data is proprietary and must be protected from unauthorized disclosure or distribution SRDR Data Analysts can bulk export all submitted SRDR data using the buttons below. Export SRDR Dev Data 6 Software Development Reports (3026-1), last updated 03/24/2022. **Export SRDR Maint Data** No SRDR Maint reports available. Export SRDR ERP Data No SRDR ERP data available. Export Legacy SRDR Data No SRDR Legacy data available. **FlexFile Data**

This export provides the time-phased actual-to-date data for all FlexFiles in a flattened, pivot-friendly format. The data for each FlexFile is provided as a CSV file which is then packaged into a collection of CSVs within a single ZIP file, identified by the CADE submission ID.

 Export FlexFile Pivot Data
 Multi-file FlexFile Export
 2.

FlexFile 101 Representations of FlexFile data in CADE

There are two exports with *bulk* representations of FlexFiles:

1. CCDR Bulk Export

- This takes multiple FlexFiles and integrates the FlexFile with traditional CCDR (1921 series) data
- The FlexFile is represented at a higher level- WBS Level with quantity data integrated
- 2. FlexFile Bulk Pivot Export
 - This takes multiple FlexFiles and allows them to be exported at the lowest level of their data- contractor account level
 - □ The FlexFile is represented at the lowest level of data

Potential Use Cases of FlexFile Exports



	Individual	Exports	Bulk	Exports
Attribute	The FlexFile (JSON or Excel)	FlexFile Pivot Export (CSV)	CCDR Export (Excel)	Bulk FlexFile Pivot Export (CSV)
CADE Metadata			Х	х
Contractor Metadata	х	Х	Х	х
Actual-To-Date Costs and Hours	х	Х	Х	х
Forecast-At-Completion Costs and Hours	х		Х	
Recurring/Nonrecurring Costs and Hours	х	Х	Х	х
Costs and Hours by Order/Lot	х	Х	Х	х
Costs and Hours by Unit/Sublot	х	Х	Х	х
Costs and Hours by End Item	х	Х		х
Costs and Hours by Account	х	Х		х
CADE Standardized Functional Categories	х	Х	Х	х
Contractor Reported Functional Categories	х	Х		х
Allocation Method ID	х	Х		х
Allocation Components (Order/Lot, End Item, WBS, or Unit/Sublot, and % Value)*	х			
Additional Tags	х	Х		х
Reporting Period Start Dates & End Dates	х	Х		х
Quantity Data- from Quantity Report			Х	

FlexFile 101 Potential Use cases of CADE Individual Exports

□ FlexFile JSON or Excel Template

- The FlexFile includes all elements of the contract's FlexFile so if you are trying to understand a FlexFile as a whole (i.e. Reporting Configuration, allocation methods, WBS Dictionaries) the individual FlexFile has all of this information
- Things to note: This will have not have any CADE Metadata so if you are going to do analysis on a large amount of FlexFiles then you may not have normalized metadata due to Contractor entered naming conventions

Individual FlexFile Pivot

- The individual pivot come with a template that can be used to roll up the WBS structure to emulate a 1921 series. This template data can also be used to look at both lower level detail and rolled up information across a singular FlexFile
- □ *Things to note:* This is an individual file without CADE Metadata so you would be getting the lowest level of information with only the Actuals To Date

CCDR Bulk Export:

- □ This can be used to look across programs that span many years. The user has the capability to come FlexFiles and 1921 Legacy Series in a correct and accurate manner at a higher level while also getting an opportunity to look at the quantity data associated with both the legacy series as well as the FlexFile &Quantity data
- □ *Things to note*: The CCDR Bulk Export incorporates only higher level data (i.e. no account level data for FlexFiles) due to the integration of CCDR data and FlexFile data

Given State File Bulk Pivot Export:

- This takes multiple FlexFiles and allows them to be exported at the account level of the data. This allows users to look across FlexFile submission to compare previous submission to new submissions
- □ *Things to note*: This will only include Actual to Date account level data due the Forecasted At Completion level data being captured at a much higher level

*Both exports can be integrated to get lower level data as well as higher level FAC data

FlexFiles Views and Nuances



FlexFile 101 Pivot Table Template Example – REC/NRE to Date

Recurring / Non Recurring To Date By WBS

Actual To Date (Dollars)	Column Labels 🔽]	
Row Labels 🔹 🔹	NONRECURRING	RECURRING	Grand Total
🗏 TOTAL	12,605,528,204	12,426,772,570	25,032,300,774
🗄 Subsystem 1.1	10,103,913,302	10,123,613,365	20,227,526,667
🗏 Subsystem 1.2	133,355,674	127,722,937	261,078,611
Subsystem 1.2	133,355,674	127,722,937	261,078,611
🗆 Subsystem 1.3	1,272,886,648	1,160,647,449	2,433,534,097
Subsystem 1.3.1	1,039,243,795	928,388,113	1,967,631,908
Subsystem 1.3.2	172,522,418	168,112,630	340,635,048
Subsystem 1.3.3	61,120,435	64,146,706	125,267,141
🗆 Subsystem 1.4	841,462,234	754,716,610	1,596,178,844
Subsystem 1.4	841,462,234	754,716,610	1,596,178,844
🗆 Subsystem 1.5	253,910,346	260,072,209	513,982,555
Subsystem 1.5	253,910,346	260,072,209	513,982,555
Grand Total	12,605,528,204	12,426,772,570	25,032,300,774

Recurring / Non Recurring To Date By CLIN/End Item

Actual To Date (Dollars)	Column Labels 🔻		
Row Labels	NONRECURRING	RECURRING	Grand Total
🗏 CLIN 1	4,983,155,115	5,010,693,625	9,993,848,740
Variant A	2,497,021,739	2,499,480,176	4,996,501,915
Variant B	2,486,133,376	2,511,213,449	4,997,346,825
E CLIN 2	5,124,875,709	4,891,529,619	10,016,405,328
Variant A	2,532,796,593	2,476,183,592	5,008,980,185
Variant B	2,592,079,116	2,415,346,027	5,007,425,143
E CLIN 3	2,497,497,380	2,524,549,326	5,022,046,706
Variant A	1,256,671,890	1,257,162,395	2,513,834,285
Variant B	1,240,825,490	1,267,386,931	2,508,212,421
Grand Total	12,605,528,204	12,426,772,570	25,032,300,774

FlexFile 101 Pivot Table Template Examples – CLIN/WBS Relationship

CLIN / WBS Relationship

Actual To Date (Dollars)	Column Labels 💌		
Row Labels	NONRECURRING	RECURRING	Grand Total
TOTAL	12,605,528,204	12,426,772,570	25,032,300,774
🗄 Subsystem 1.1	10,103,913,302	10,123,613,365	20,227,526,667
🗏 Subsystem 1.2	133,355,674	127,722,937	261,078,611
CLIN 1	49,636,240	54,975,963	104,612,203
CLIN 2	55,319,526	48,782,405	104,101,931
CLIN 3	28,399,908	23,964,569	52,364,477
🗏 Subsystem 1.3	1,272,886,648	1,160,647,449	2,433,534,097
CLIN 1	525,955,805	439,802,971	965,758,776
CLIN 2	497,280,879	479,573,658	976,854,537
CLIN 3	249,649,964	241,270,820	490,920,784
🗏 Subsystem 1.4	841,462,234	754,716,610	1,596,178,844
CLIN 1	328,463,449	308,470,488	636,933,937
CLIN 2	345,831,910	293,998,581	639,830,491
CLIN 3	167,166,875	152,247,541	319,414,416
🗏 Subsystem 1.5	253,910,346	260,072,209	513,982,555
CLIN 1	115,741,930	89,704,972	205,446,902
CLIN 2	92,158,084	112,555,184	204,713,268
CLIN 3	46,010,332	57,812,053	103,822,385
Grand Total	12,605,528,204	12,426,772,570	25,032,300,774

Actual To Date (Dollars) Column Labels 🔽		
Row Labels	NONRECURRING	RECURRING	Grand Total
🗏 CLIN 1	4,983,155,115	5,010,693,625	9,993,848,740
Subsystem 1.1	3,963,357,691	4,117,739,231	8,081,096,922
Subsystem 1.2	49,636,240	54,975,963	104,612,203
Subsystem 1.3	525,955,805	439,802,971	965,758,776
Subsystem 1.4	328,463,449	308,470,488	636,933,937
Subsystem 1.5	115,741,930	89,704,972	205,446,902
🗏 CLIN 2	5,124,875,709	4,891,529,619	10,016,405,328
Subsystem 1.1	4,134,285,310	3,956,619,791	8,090,905,101
Subsystem 1.2	55,319,526	48,782,405	104,101,931
Subsystem 1.3	497,280,879	479,573,658	976,854,537
Subsystem 1.4	345 <mark>,</mark> 831,910	293,998,581	639,830,491
Subsystem 1.5	92,158,084	112,555,184	204,713,268
🗏 CLIN 3	2,497,497,380	2,524,549,326	5,022,046,706
Subsystem 1.1	2,006,270,301	2,049,254,343	4,055,524,644
Subsystem 1.2	28,399,908	23,964,569	52,364,477
Subsystem 1.3	249,649,964	241,270,820	490,920,784
Subsystem 1.4	167,166,875	152,247,541	319,414,416
Subsystem 1.5	46,010,332	57,812,053	103,822,385
Grand Total	12,605,528,204	12,426,772,570	25,032,300,774

FlexFile 101 Pivot Table Template Examples – Standard Categories

Standard Categories By WBS

6 /	
NonrecurringOrRecurring_ID	RECURRING 7
Row Labels	Actual To Date (Dollars)
DIRECT_ENGINEERING_LABOR	6,207,404,106
Subsystem 1.1	5,057,018,865
Subsystem 1.2	63,783,840
Subsystem 1.3	579,583,346
Subsystem 1.4	377,067,080
Subsystem 1.5	129,950,975
DIRECT_MANUFACTURING_OTHER_LABOR	1,221,971,052
DIRECT_MANUFACTURING_TOUCH_LABOR	1,261,312,135
DIRECT_MATERIALS	1,241,153,706
ENGINEERING_LABOR_OVERHEAD	620,637,316
FACILITIES_CAPITAL_COST_OF_MONEY	124,120,188
GENERAL_AND_ADMINISTRATIVE	1,241,131,429
MANUFACTURING_OPERATIONS_LABOR_OVERHEAD	248,224,616
MATERIAL_OVERHEAD	124,187,398
OTHER_DIRECT_COSTS	124,217,158
OTHER_OVERHEAD	12,413,466
Grand Total	12,426,772,570

Contractor Categories vs. Standard Categories

NonrecurringOrRecurring_ID	RECURRING
0 02	
Row Labels	Actual To Date (Dollars
DIRECT_ENGINEERING_LABOR	6,207,404,106
Direct Engineering Labor (1)	1,241,140,137
Direct Engineering Labor (2)	1,241,213,842
Direct Engineering Labor (3)	1,241,999,794
Direct Engineering Labor (4)	1,241,165,702
Direct Engineering Labor (5)	1,241,884,631
DIRECT_MANUFACTURING_OTHER_LABOR	1,221,971,052
DIRECT_MANUFACTURING_TOUCH_LABOR	1,261,312,135
DIRECT_MATERIALS	1,241,153,706
H ENGINEERING_LABOR_OVERHEAD	620,637,316
FACILITIES_CAPITAL_COST_OF_MONEY	124,120,188
GENERAL_AND_ADMINISTRATIVE	1,241,131,429
MANUFACTURING_OPERATIONS_LABOR_OVERHEAD	248,224,616
H MATERIAL_OVERHEAD	124,187,398
OTHER_DIRECT_COSTS	124,217,158
H OTHER_OVERHEAD	12,413,466
Grand Total	12,426,772,570

FlexFile 101 Pivot Table Template Example - Phasing

NonrecurringOrRecurring_ID	RECURRING 🖛									
StandardCategory_ID	DIRECT_MA	FACTURING	_TOUCH_LA	ABOR						
	Column Lab 🔻									
	Sum of Actual	FoDate_Hou	rs							
Row Labels	1/31/2016	2/29/2016	3/31/2016	4/30/2016	5/31/2016	6/30/2016	7/31/2016	8/31/2016	9/30/2016	10/31/2016
Subsystem 1.1.1	1836	1744	1938	1798	1896	1836	1859	1861	1812	1905
Subsystem 1.1.2	4617	4395	4704	4484	4713	4528	4566	4660	4506	4589
Subsystem 1.1.3	13302	12521	13657	13046	13117	13327	13269	13449	12782	13275
Subsystem 1.1.4.1	99222	95144	100177	96730	100964	96857	97071	99524	97963	100469
Subsystem 1.1.4.2	179482	166996	182764	173528	181660	174058	174122	180150	174986	179585
Subsystem 1.1.4.3	2041	1886	2043	1956	2027	1994	1951	2057	1978	2016
Subsystem 1.1.4.4	86795	83206	89393	83393	89485	86520	86138	87478	85786	87978
Subsystem 1.1.4.5	9610	9085	9756	9418	9659	9383	9457	9714	9296	9735
Subsystem 1.1.4.6	46096	43921	46584	43915	46997	45697	45349	46374	44890	46117
Subsystem 1.1.5.1	1490	1426	1534	1472	1535	1449	1482	1507	1475	1511
Subsystem 1.1.5.2	2737	2571	2737	2632	2768	2655	2688	2703	2671	2744
Subsystem 1.1.5.3	2823	2667	2928	2752	2844	2827	2759	2882	2790	2906
Subsystem 1.1.5.4	6262	5898	6411	6083	6376	6118	6145	6364	6075	6311
Subsystem 1.1.5.5	2132	1966	2160	2003	2175	2088	2088	2105	2078	2112
Subsystem 1.1.5.6	13627	12588	14020	13195	13675	13374	13363	13876	13012	13493
Subsystem 1.2	6229	6201	6516	6127	6556	6271	6318	6431	6212	6401
Subsystem 1.3.1	39929	37209	40340	38046	39936	39503	38541	40509	38443	39964
Subsystem 1.3.2	7317	6894	7557	7001	7598	7178	7100	7392	7294	7292
Subsystem 1.3.3	3142	2979	3133	3028	3130	3103	3065	3114	3086	3091
Subsystem 1.4	34155	32634	34136	32784	34297	33855	33081	34831	33030	34319
Subsystem 1.5	10065	9285	10209	9638	10011	9921	9863	9897	9818	9994
Grand Total	572909	541216	582697	553029	581419	562542	560275	576878	559983	575807

FlexFile 101 Unit/Sublot Reporting in Excel Template Export



Order or Lot ID

1 Z123D4-15-F-0001

2 Z123D4-15-F-0001

3 Z123D4-15-F-0001

• Why are these columns blank?!

Order or Lo	t ID 🔽	CLIN ID 💌	End Item	ID 🔽	WBS Element ID 💌	A	ccount ID	•	Functional Category ID 💌
1100				1.1.1.1	QYOLOC	000115		ENG_1_SR	
1100				1.1.1.1	QYOL00000115			ENG_2_MID	
1100				1.1.1.1	.1.1.1 QYOL00000115		ENG_3_JR		
<i>Order/Lot</i> and <i>End Item</i> appear to be omitted									y are included in it/Sublot table
fields a	re i	<i>mplied</i> b	υ	nits or S	ublots				
~									

2 GPV

2 GPV

2 GPV

ID

1

2

3

End Item ID

First Unit Number

1

2

3

Last Unit Number

- The "missing" fields are *implied* by Unit/Sublot tag
- <u>Bottom line</u>: Beware when Pivoting the FlexFile Excel export!
 - Pivot Export remedies this gap
 - Can also utilize Excel Data Model



COST ASSESSMENT DATA ENTERPRISE

1994.11

....

FlexFile Visualization Examples

....

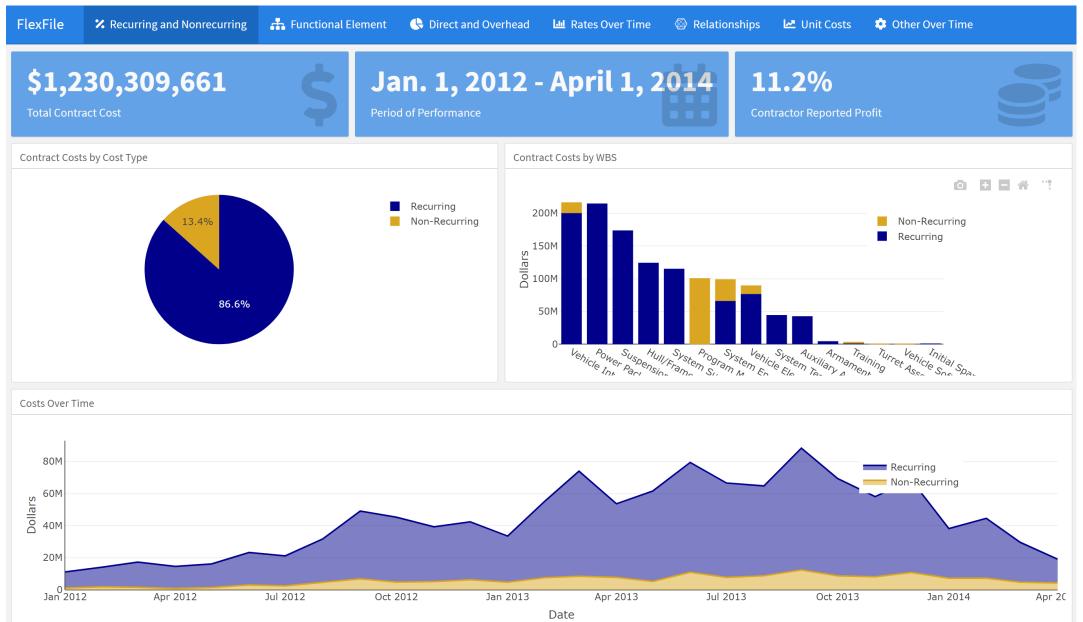
....

....

FlexFile 101

Additional Data Views





FlexFile 101

Additional Data Views

Jul 2012

Oct 2012

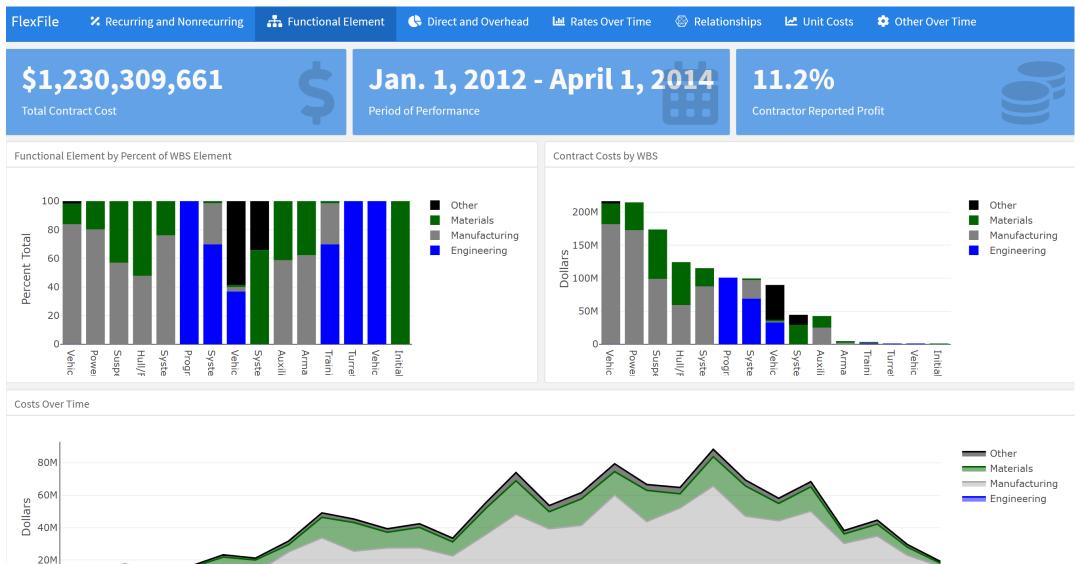
Jan 2013

Date

Apr 2012

Jan 2012





Apr 2013

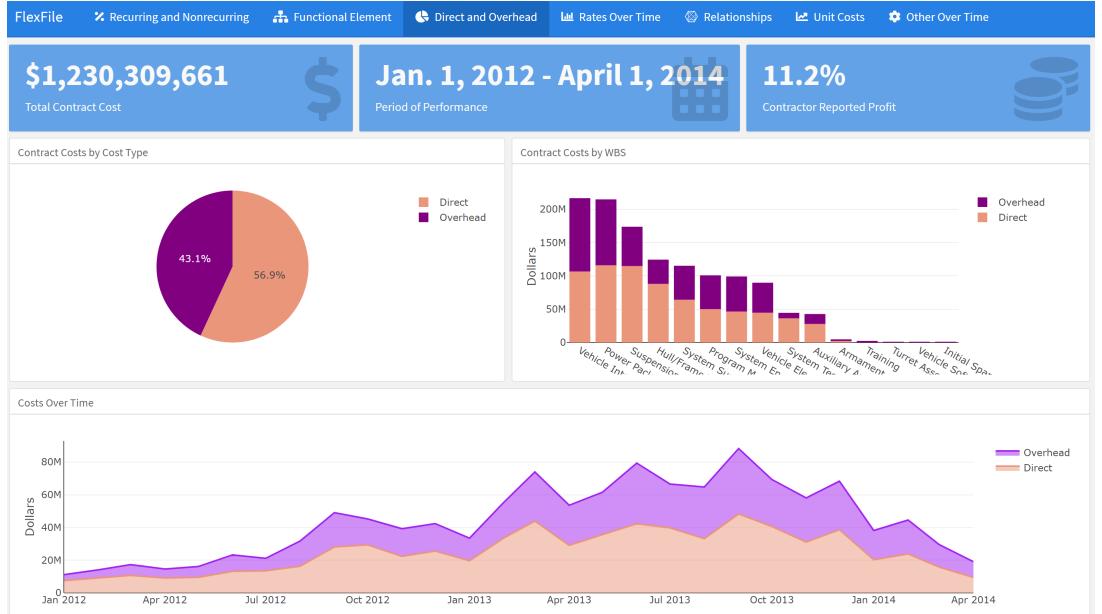
Jul 2013

Oct 2013

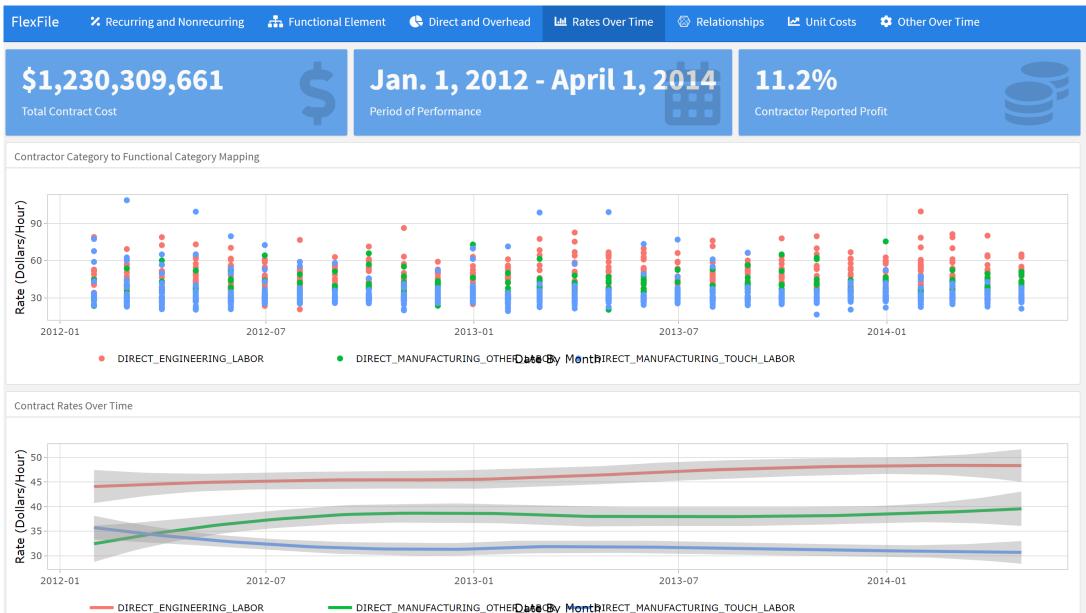
Jan 2014

Apr 2014





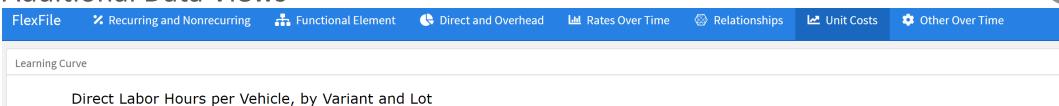


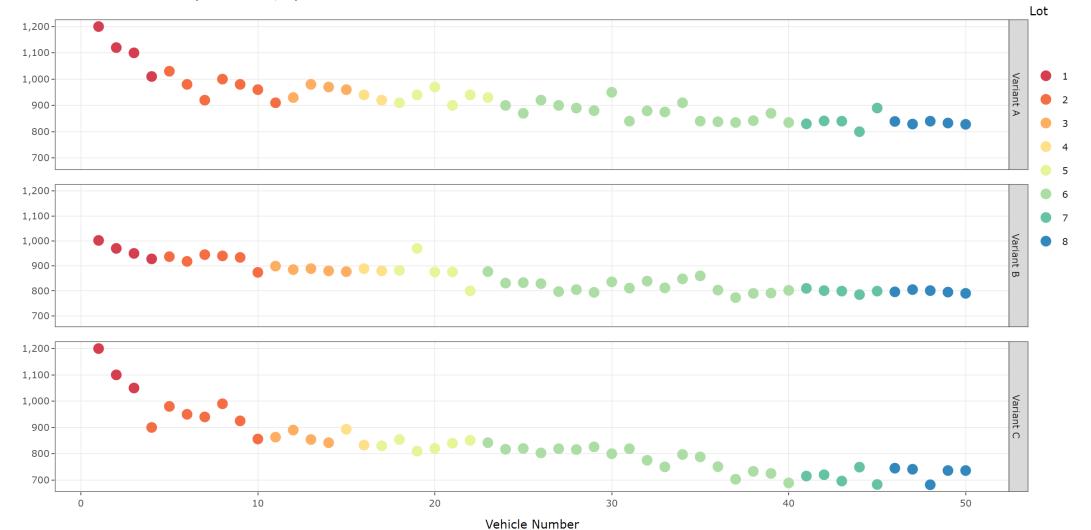




FlexFile 😕	Recurring and Nonrecurrir	ng 🚠 Functional Elem	ent 🛛 🕒 Direct and Overhead	L네 Rates Over Time	lationships 🖗	🛃 Unit Costs	🔅 Other Over Time	
\$1,230 Total Contract Co	,309,661		Jan. 1, 2012 Period of Performance	- April 1, 2		1.2% htractor Reported Pro	fit	
Contractor Category	to Functional Category Rela	ationship		Account to WBS Relation	onship			
		Manufacturing AHE Manufacturing AAH Manufacturing AAH Manufacturing AAH Manufacturing AJE Manufacturing ADE	Acturing Manufacturing AHC	AA-J AC-A AD-E AD-G AD-I AE-A AE-D				1.1.2 1.1.3 1.1.5 1.1.6 1.1.7
DIRECT_M Purchased Equipment AFJ	Purchased Parts AEA	Purchased Equipment AFH Other	Engineering AAJ AAJ ABD Other ABD Other ABD Other ADJ Other ADD Other Oth	AF-I AF-J AH-C AH-E AH-I AI-H AJ-J				1.3 1.4 1.5







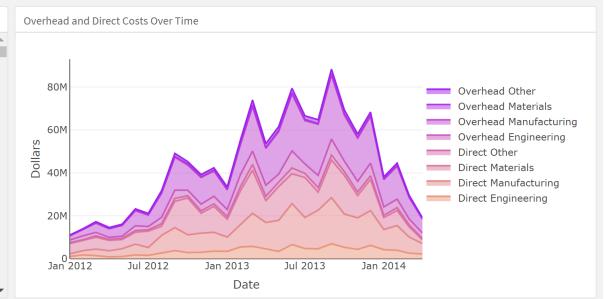


1.6 1.5 1.4 1.3 1.12 1.1.8 1.1.7 1.1.6 1.1.5 1.1.4 1.1.3 1.1.2 1.1.2

FlexFile	🔀 Recurring and Nonrecurring 🛛 👬 Function	nal Element	🕒 Direct and O	ver	head 🔟 Rates Over Time	🛞 Relationship	s 🛃 Unit Costs	🔅 Other Over Time
Data Table W	/BS Over Time				WBS Over Time			
WBS ID	WBS Element Name	Date	Total Dollars					
1.1.1	Vehicle Integration, Assembly, Test and Checkout	2012-01-01	\$793,086.44					
1.1.10	Armament	2012-01-01	\$368.03		80M			
1.1.2	Hull/Frame/Body/Cab	2012-01-01	\$1,801,513.03		60M			
1.1.3	System Survivability	2012-01-01	\$342,479.08		Dollars M04			
1.1.5	Suspension/Steering	2012-01-01	\$1,613,654.02		^O 40M			
1.1.6	Vehicle Electronics	2012-01-01	\$1,511,928.99					
1.1.7	Power Package/Drive Train	2012-01-01	\$1,898,772.69		20M			
1.1.8	Auxiliary Automotive	2012-01-01	\$902,464.19		0 Jan 2012 Jul 20	012 Jan 20)13 Jul 2013	3 Jan 2014
1.12	Initial Spares and Repair Parts	2012-01-01	\$-2,499.98	-	Jan 2012 Jul 2	JIZ JAH ZU	Date	5 Jan 2014

Data Table Overhead and Direct Over Time

Category	SFC	Date	Total Dollars
Direct	Engineering	2012-01-01	\$1,143,949.00
Direct	Manufacturing	2012-01-01	\$1,304,707.00
Direct	Materials	2012-01-01	\$4,703,055.00
Direct	Other	2012-01-01	\$364,037.00
Overhead	Engineering	2012-01-01	\$1,261,306.00
Overhead	Manufacturing	2012-01-01	\$1,966,525.00
Overhead	Materials	2012-01-01	\$169,998.00
Overhead	Other	2012-01-01	\$249,898.00
Direct	Engineering	2012-02-01	\$1,812,258.00





This report was automatically generated by the {reviewcsdr} R package. It is the responsibility of the analyst who ran the validation script to add/include appropriate portion markings based on the data which was passed to the write_review_powerpoint() function when this report was generated. If this report was generated using a CSDR submission from a contractor, than all following slides should be treated as CUI Categories: PROCURE, PROPIN and potentially SSEL. Review local guidance and update the following slides accordantly before distributing any results included within this file.

{reviewcsdr} Output

reviewcsdr v1.0.1

FlexFile 101 *reviewcsdr* Runtime Configuration

- Generated: 2022-12-22 08:18:39
- File Info
 - flexfile: Contract Complete_flexfile
 - quantityreport: Contract Complete_quantity
- Session Info
 - Platform: x86_64-w64-mingw32
 - Version: R version 4.1.2 (2021-11-01)
- Package Versions
 - reviewcsdr: 1.0.1
 - readflexfile: 0.4.0
 - ggplot2: 3.3.5
 - officer: 0.4.1
 - dplyr: 1.0.7



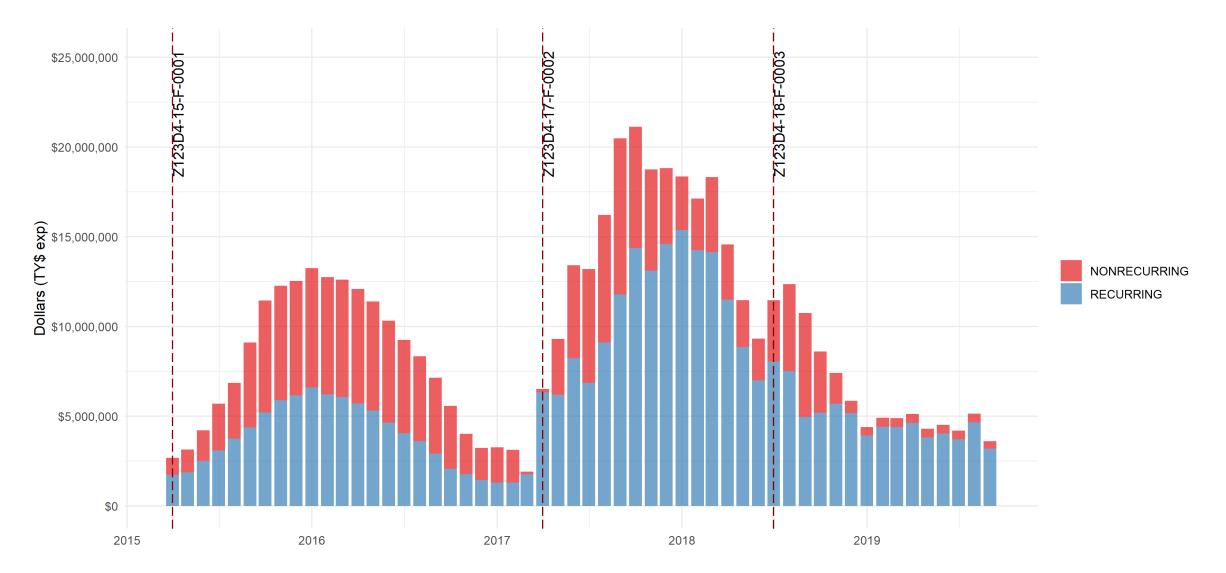
FlexFile 101 Cerberus Report Metadata (Z-99-C1(R2) Submission 6.0)



Field	Value
ProgramName	Cerberus Autonomous Vehicle Program
PhaseOrMilestoneID	MULTIPLE
PrimeMissionProduct	Cerberus Autonomous Vehicles
ReportingOrganization_OrganizationName	Con-Tractor, LLC
ApprovedPlanNumber	Z-99-C1(R2)
ApprovedPlanRevisionNumber	3
ContractPrice	\$569,332,344
ContractNumber	Z123D4-15-D-7890
SubmissionEvent_Name	Contract Complete
FinalPeriod	2019-09-01 to 2019-09-30

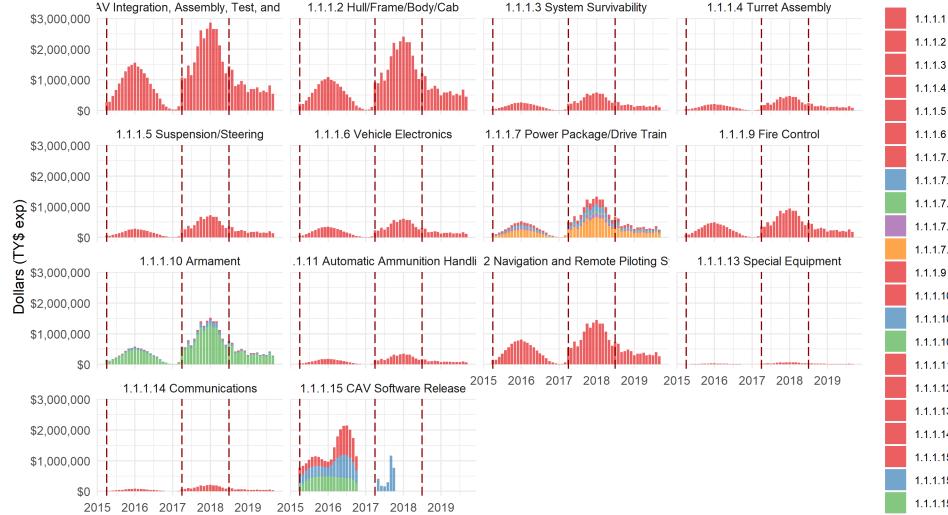
FlexFile 101 Cerberus Total Contract Costs (Z-99-C1(R2) Submission 6.0)





FlexFile 101 Cerberus Prime Mission Product Elements (Z-99-C1(R2) Submission 6.0)

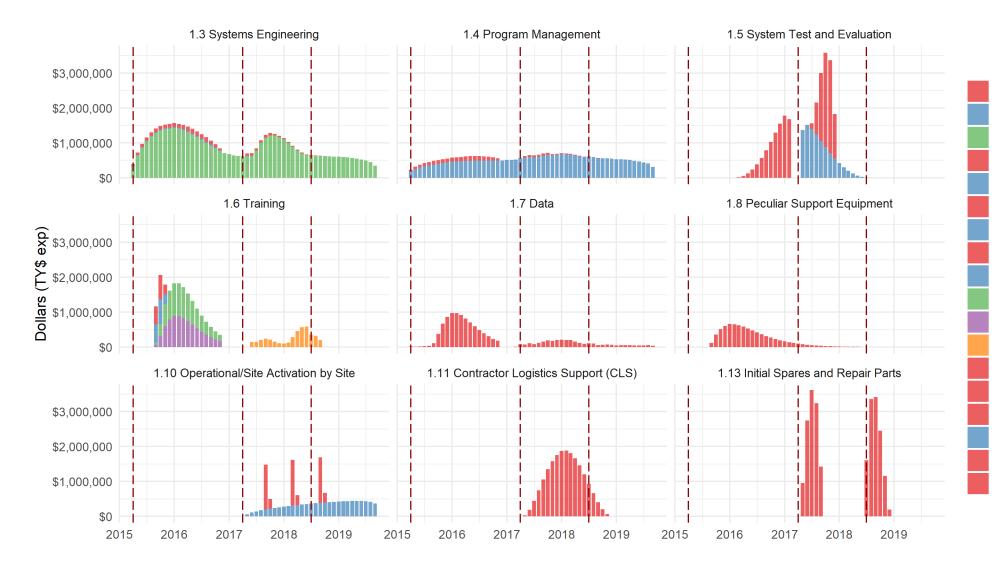




1.1.1.1 CAV Integration, Assembly, Test, and Checkout 1.1.1.2 Hull/Frame/Body/Cab 1.1.1.3 System Survivability 1.1.1.4 Turret Assembly 1.1.1.5 Suspension/Steering 1.1.1.6 Vehicle Electronics 1.1.1.7.1.1.1 Engine Block 1.1.1.7.1.1.2 Turbocharger 1.1.1.7.1.1.3 Other Dressed Engine 1.1.1.7.1.2 Transmission 1.1.1.7.2 Drive Train 1.1.1.9 Fire Control 1.1.1.10.1 30mm Gun 1.1.1.10.2.1 M2 50-cal / Mk19 Mount 1.1.1.10.2.2 Anti-Tank Missile 1.1.1.11 Automatic Ammunition Handling 1.1.1.12 Navigation and Remote Piloting Systems 1.1.1.13 Special Equipment 1.1.1.14 Communications 1.1.1.15.1 Sensor Processing 1.1.1.15.2 Autonomous Navigation 1.1.1.15.3 Vehicle Control

FlexFile 101 Cerberus Support Elements (Z-99-C1(R2) Submission 6.0)

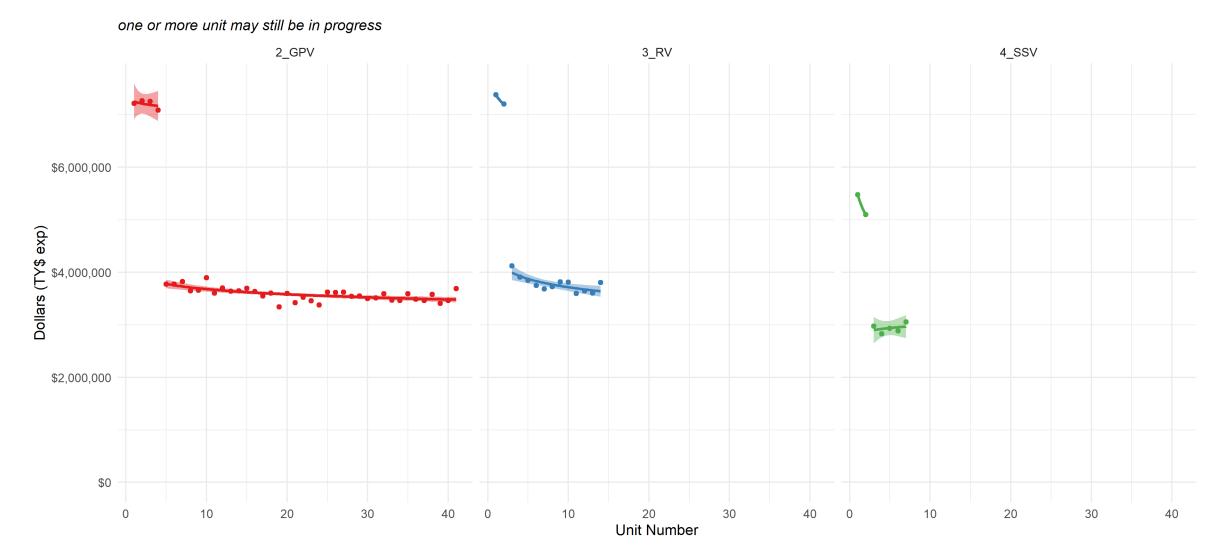




1.3.1 Software Systems Engineering 1.3.3 Cybersecurity Systems Engineering 1.3.4 Core Systems Engineering 1.4.1 Software Program Management 1.4.4 Core Program Management 1.5.1 Development Test and Evaluation 1.5.2 Operational Test and Evaluation 1.6.1.1 Operator Instructional Equipment 1.6.1.2 Maintainer Instructional Equipment 1.6.2.1 Operator Instructional Services 1.6.2.2 Maintainer Instructional Services 1.6.4.1 Vehicle Simulator 1.7.1 Data Deliverables 1.8.2 Support and Handling Equipment 1.10.2 Contractor Technical Support 1.10.5 Interim Contractor Support (ICS) 1.11 Contractor Logistics Support (CLS) 1.13 Initial Spares and Repair Parts

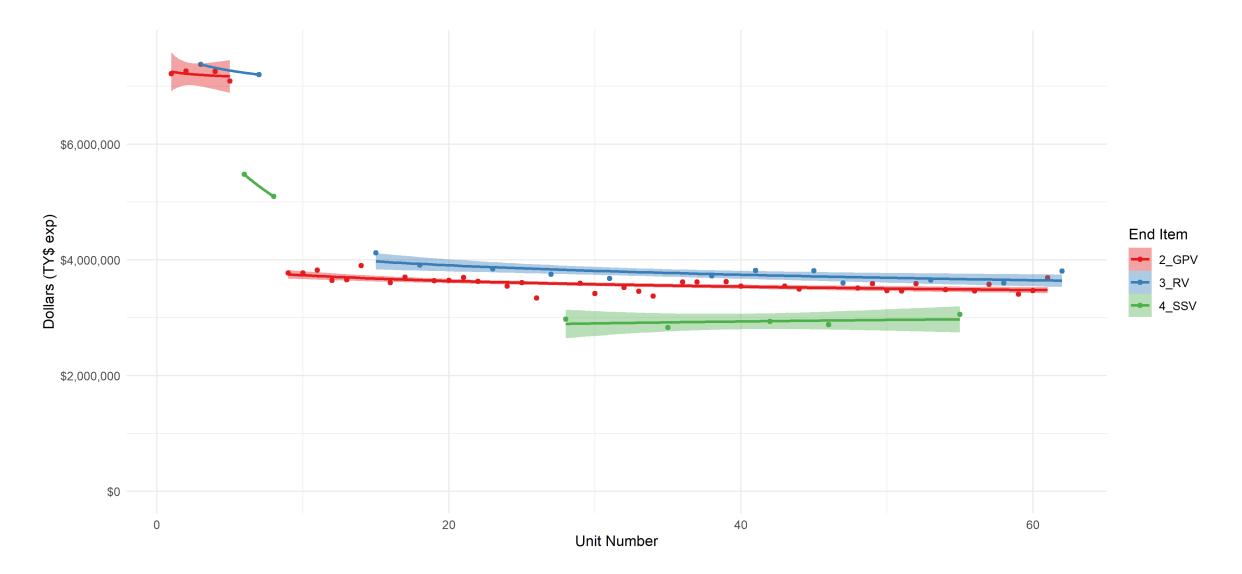
FlexFile 101 Cerberus Unit Costs (By End Item) (Z-99-C1(R2) Submission 6.0)





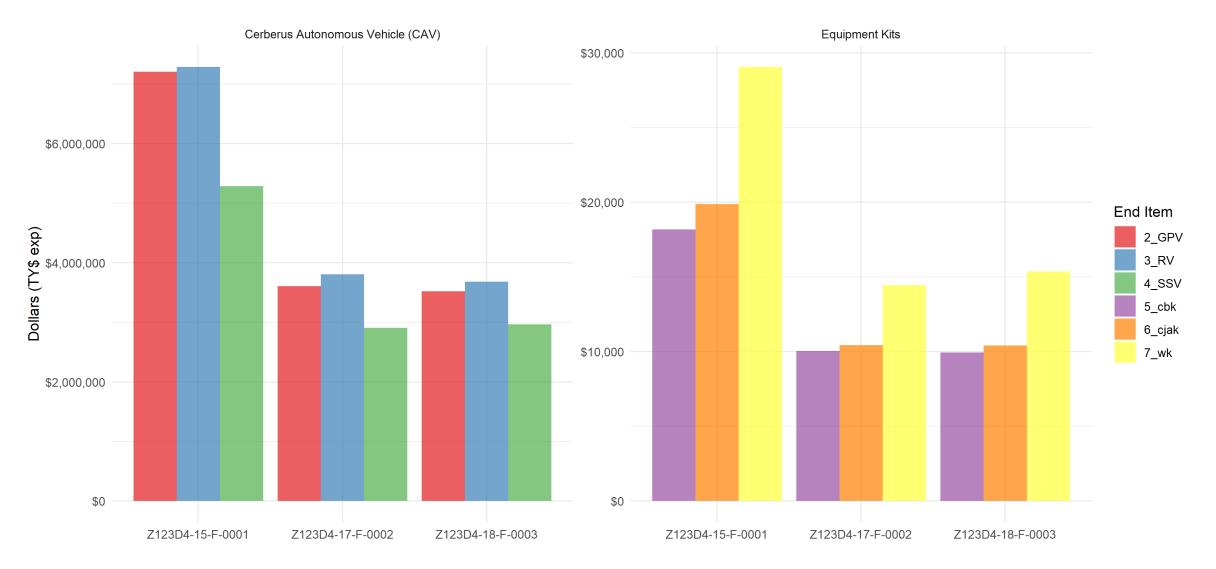
FlexFile 101 Cerberus Unit Costs (By Sequence) (Z-99-C1(R2) Submission 6.0)





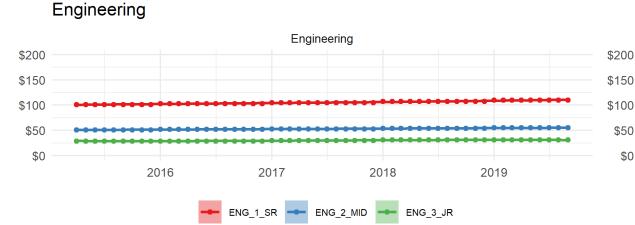
FlexFile 101 Cerberus Average Recurring Unit Cost (Z-99-C1(R2) Submission 6.0)



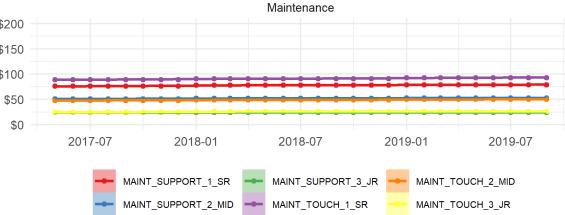


FlexFile 101 Cerberus Labor Rates Over Time (Z-99-C1(R2) Submission 6.0)

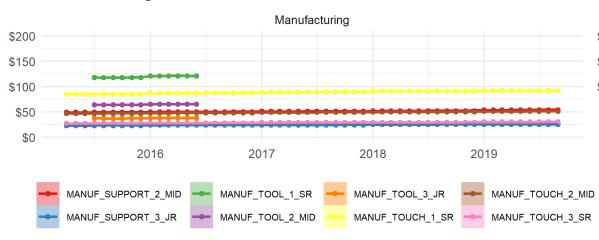




Maintenance



Manufacturing



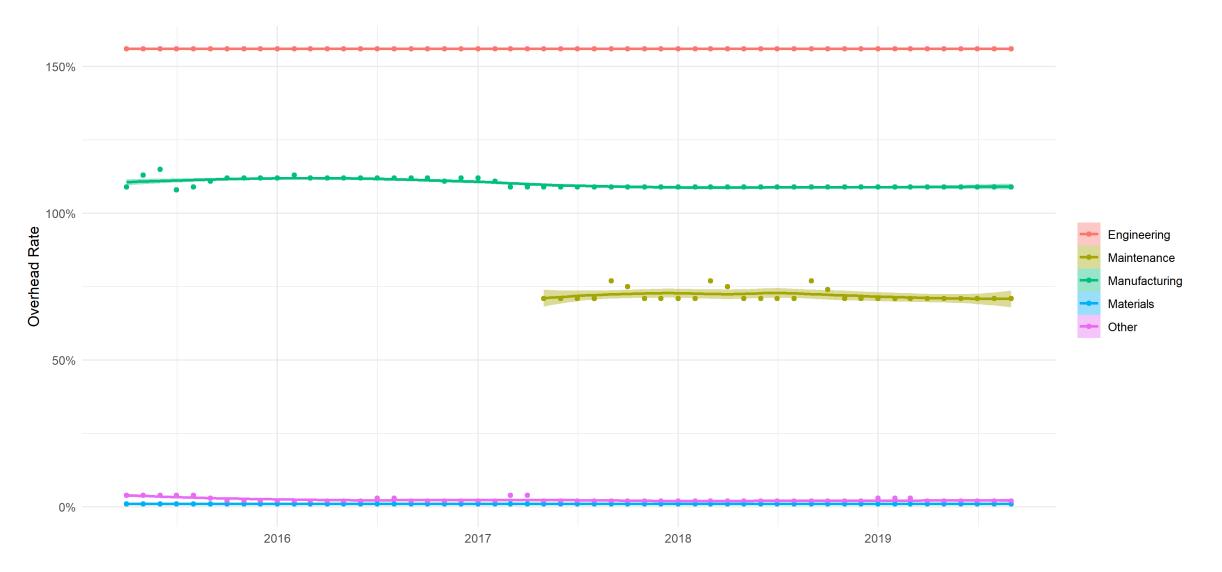
Other



FlexFile 101

Cerberus Average Overhead Rates Over Time (Z-99-C1(R2) Submission 6.0)







cPet 2.7 is now available! September 24, 2019

The FlexFile Standard Plans are now available! September 13, 2019

What can I do with CADE? Image: Submit submit review

FlexFile 101 Important Documents and POCs



All documents can be found at https://cade.osd.mil/

- ✓ Report DIDs (FlexFile, Quantity Data Report, SRDR, and Tech Data Report)
- ✓ Report Implementation Guides
- ✓ Instructions for completing DD 2794
- ✓ New DD Form 2794 Format
- ✓ Draft CDRL Language

See <u>https://cade.osd.mil/support</u> for training material and information on upcoming training events CDSG Director Dave Lyons David.W.Lyons16.civ@mail.mil (703) 692-8036

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