



C***CERT+**

Release Notes
Version 4.1.4.3

January 28, 2024

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CSDR Requirement Thresholds

May 2019

Affected Programs:

- All ACAT I Programs. ACAT I is defined as:
 - RDT&E > 480M
 - Procurement > \$2.79B

- CAPE August 2018 Memorandum
 - Middle Tier Acquisition Programs where:
 - Total estimate expenditures > \$100M
 - Contracts > than \$20M

- CAPE January 2019 Memorandum
 - All ACAT II Programs where:
 - Contracts > \$50M
 - Discretionary by Program Manager or Agency Cost Center at > \$20M

TECHNICAL INFORMATION

System Requirements - Page #5

Pre-Installation Recommendation - Page #6 - Page #8

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System Requirements

Framework

- i. Microsoft .net framework 4.6 is required
- ii. Installation of C*CERT+ does not include the installation of Microsoft .net framework

System Files

- i. Microsoft Visual C++ (2015 - 2019) Redistributable (x64)
 - i. This file comes included with the C*CERT+ installation package as a prerequisite.
 - ii. If, during installation, this file is not found to already be installed on the computer, then C*CERT+ will prompt the user to install.
- iii. All other files required are included in the installation process

Operating Systems

- i. Windows 11 Professional 64-bit
 - ii. Some Windows 11 Professional Configurations may required the Windows Feature ".Net 3.5 (Includes 3.0 and 2.0)" to be turned on in order to completely install.
- iii. Windows 10 Professional 64-bit
- iv. Windows Server 2012/2016 64-bit
- v. **32-bit Operating Systems are no longer supported**

Pre-Installation Recommendations

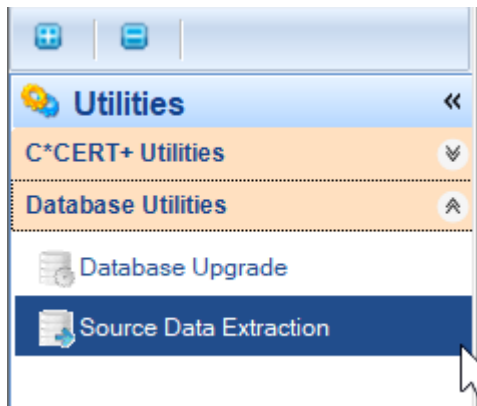
It is always recommended a backup is made of the following C*CERT+ data items were applicable.
Use the C*CERT+ Export to Excel functionality to create the backup files where a



Legacy			Flex File		
Menu Tab	Menu Group	Items(s) to Backup	Menu Tab	Menu Group	Item(s) to Backup
CPR Consolidation	Consolidation	Consolidated Headers	CCDR	Setup	Report Configuration - Screen Shot should suffice
CCDR	Setup	Meta Data	CCDR	Setup	Meta Data
CCDR	Setup	Alternate WBS	CCDR	Setup	DD 2794 WBS
CCDR	Setup	Templates(s) - Screen Shot should suffice	CCDR	Setup	Order/Lots
CCDR	Setup	Unit/Lots	CCDR	Setup	End Items
CCDR	Mappings	DD 2794 WBS Mapping	CCDR	Setup	CLINs
CCDR	Mappings	Element Maintenance	CCDR	Setup	Overhead Categories
CCDR	Mappings	Functional Data Element Mapping	CCDR	Mappings	Rec/Non Recurring
CCDR	Mappings	Unit Grouping - Screen Shot should suffice	CCDR	Mappings	Category Mappings/Category Rules
CCDR	Mappings	Unit/Lot Allocations	CCDR	Mappings	WBS Definitions/Remarks
CCDR	Mappings	Characteristics	CCDR	Mappings	Overhead Category Mapping
			CCDR	Mappings	CLIN Mapping
			CCDR	Allocations	Order/End Item Allocations
			CCDR	Allocations	Unit/Sublot Allocations
			CCDR	Quantity Data	1921-Q
			CCDR	Quantity Data	1921-Q Remarks

Use Source Data Extraction for Backup

Source Data Extraction provides the means to export out all of the Database Source Data, Mappings and Allocations during a single process.

For single file backups - this is the recommendation.



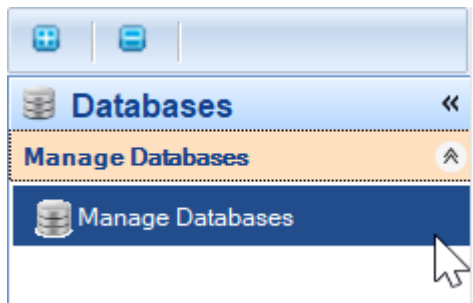
1. Select the Path of where the Database(s) are to perform Source Data Extraction. 
2. Select the Database for Source Data Extraction
3. Connect to Selected Database 

Source Data Extraction			
Source Data Extraction			
C:\Midnite Dynamics\Demo Databases\1.v4.0.0.0 Demo Databases\1. Validation Remarks and Supporting Data\			
	Database List	Select Database for Data Extraction	Selected Database Version
1	New DB Check DD 2794 Foreign Keys	<input type="checkbox"/>	
2	New Empty Database	<input type="checkbox"/>	
3	RADAR 1 & 2_FF_ETC SAME_MULTIPLE BY TYPE v4.0.1.0 Delete Order 1	<input type="checkbox"/>	
4	RADAR 1 & 2_FF_ETC SAME_MULTIPLE BY TYPE v4.0.1.0 Delete Order	<input type="checkbox"/>	
5	RADAR 1 & 2_FF_ETC SAME_MULTIPLE BY TYPE	<input type="checkbox"/>	
6	RADAR 1_FF_FAC SAME_TYPE_TIER 1 v4.0.1.0 DEV	<input type="checkbox"/>	
7	RADAR 1_FF_FAC SAME_TYPE_TIER 1 v4.0.1.0	<input type="checkbox"/>	
8	RADAR 1_FF_FAC SAME_TYPE_TIER 1	<input type="checkbox"/>	
9	TD Import Test	<input type="checkbox"/>	
10	Test new xml import	<input type="checkbox"/>	
11	Timephase Blank DB Test 2	<input type="checkbox"/>	
12	Timephase Blank DB Test	<input type="checkbox"/>	

Use Database Archive for Backup

Database Archive performs a backup in the form of a ZIP file to a desired backup location.

For full Database Backups - this is the recommendation.



1. Select the Path of where the Database(s) reside for Archive
2. Select the Database to Archive
3. Select the Archive Database button

Manage Databases			
Manage Databases			
C:\Midnite Dynamics\Demo Databases!\v4.0.0.0 Demo Databases\1. Validation Remarks and Supporting Data\			
	Select to Connect	Database Name	Last Modified
1	<input type="checkbox"/>	New DB Check DD 2794 Foreign Keys	10/29/2021 8:23:18 AM
2	<input type="checkbox"/>	New Empty Database	10/19/2021 6:43:41 AM
3	<input type="checkbox"/>	RADAR 1 & 2_FF_ETC SAME_MULTIPLE BY TYPE v4.0.1.0 Delete Order 1	10/29/2021 1:31:00 PM
4	<input type="checkbox"/>	RADAR 1 & 2_FF_ETC SAME_MULTIPLE BY TYPE v4.0.1.0 Delete Order	10/29/2021 11:37:27 AM
5	<input type="checkbox"/>	RADAR 1 & 2_FF_ETC SAME_MULTIPLE BY TYPE	9/16/2021 7:57:54 AM
6	<input checked="" type="checkbox"/>	RADAR 1_FF_FAC SAME_TYPE_TIER 1 v4.0.1.0 DEV	10/29/2021 10:09:50 AM
7	<input type="checkbox"/>	RADAR 1_FF_FAC SAME_TYPE_TIER 1 v4.0.1.0	10/1/2021 4:00:39 PM
8	<input type="checkbox"/>	RADAR 1_FF_FAC SAME_TYPE_TIER 1	9/30/2021 3:49:19 PM
9	<input type="checkbox"/>	TD Import Test	9/1/2021 11:34:05 AM
10	<input type="checkbox"/>	Test new xml import	10/19/2021 11:29:04 AM
11	<input type="checkbox"/>	Timephase Blank DB Test 2	10/19/2021 11:45:55 AM
12	<input type="checkbox"/>	Timephase Blank DB Test	10/19/2021 11:33:01 AM

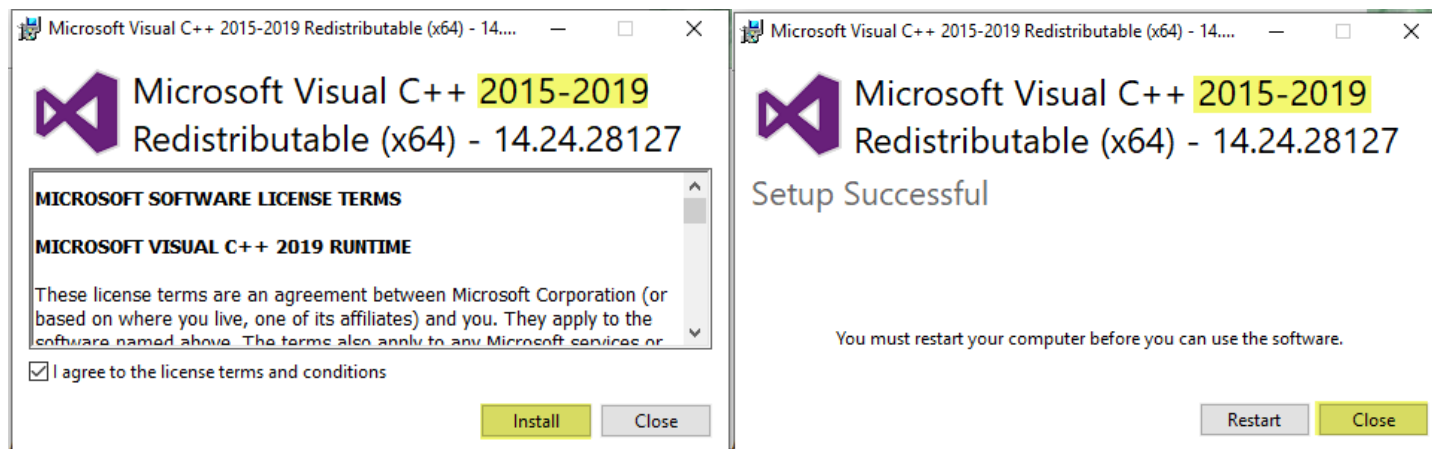
Installation Summary

This version (4.1.4.3) of C***CERT+** is a FULL x64 bit Application.

C***CERT+** is no longer supported on x86 Machines.

- The C***CERT+** installation package comes in the form of a Compressed ZIP File.
- There are two files contained within the ZIP file and they need to be extracted to a desired location in which they can then be accessed.
- The two files are:
 1. C-**CERT+** *version* Install.exe (where the version is represented similar to "v4.1.4.3" ; example: "C-**CERT+** v4.1.4.3 Install.exe")
 - This file is the actual installation file
 - It is recommended you have Administrator Rights prior to executing this file. In addition it is recommended using the Right-Click "Run As Administrator".
 2. C***CERT** License Activation.pdf
 - Provides information and guidelines on activating C***CERT+** after installation.
 - Activation is required for new C***CERT+** users only.

During installation, if the Microsoft Visual C++ Redistributable (x64) (version 2015-2019) is not found to already been installed, then the C***CERT+** install package will prompt the user to install. If this file is not installed then C***CERT+** will not perform 100%.



Restart should not be required to complete the installation of C*CERT+** v4.1.4.3**

Post v4.1.4.3 Installation

After installing v4.1.4.3 and opening up C*CERT+ - it will try and connect to the last Database used (this information is stored in the ccertconfig.xml file)

After connecting - if the connected database is a version pre v4.1.4.3 - a message will appear indicating a Database Schema Upgrade is required.

Perform a Database Schema Upgrade using **Utilities - Database Upgrade** when this message appears.

- Use Utilities => Database Utilities => Database Upgrade

- Note: a connected Database cannot be upgraded (it will show as disabled in the Database Upgrade Utility)

- You must first connect to another database, or create a temporary database and connect to it, and then use the Database Upgrade Utility and upgrade the desired Database.

- Please follow the C*CERT+ help on this subject to perform this task

During C*CERT+ Database Upgrade only the Main Database is upgraded. The CCDR Rollup Database and the Source Data Database are not upgraded (these are attached databases to the Main database).

These two databases are dynamic and are recreated during each process:

- *mainDBName_tmpRollup.ccertdb* is recreated for each CCDR Rollup process
- *mainDBName_tmpSourceData.ccertdb* is recreated for each Source Data Import process
- where *mainDBName* is the name of the Main Database

If after upgrading to v4.1.4.3 this error is received at any time: "SQL Logic Error: no such column T1.TAGKey"

The solution to this is to simply re-import the Source Data which will regenerate the *_tmpSourceData.ccertdb* database.

Release Notes

New Features Summary - Page #13 - #23
Updates - Page #24

Release Notes Overview

Version 4.1.4.3 includes both new Features and Maintenance Updates.

**NOTE: there were no changes made to the C*CERT
+ Database Connection Manager application.**

NEW Features

The following list indentifies the New Features released with C*CERT+ v4.1.4.3

Item	Module	New Feature	DB Types Affected	Page
1	Standard Category Mapping Rules	Filter Standard Category Field for Blanks	Legacy/FlexFile	14
2	Quantity Data Remarks	New Flag Indicator where Remarks exists	FlexFile	15
3	WBS Definitions	Using NA, N/A or Not Applicable at the beginning or the end of the WBS Definition is recognized	FlexFile	16
4	Units/Sublots Setup	Clear All Units/Sublots	FlexFile	17
5	Validations	<u>4 new 1921-Q Validations:</u> 1. Costs < 100% QTD = QAC 2. Costs = 100% QTD < QAC 3. TD Cost = 0 QTD > 0 4. Qty TD > Qty AC	FlexFile	18
6	CLIN Mapping	New Filter: Show Blanks/Show all	FlexFile	19
7	OH Category Mapping	New Filter: Missing Mapping	FlexFile	20
8	Orders/Lots and End Items Setup	Deselecting an Order/Lot from Include In Reports Clears associated data in the Database	FlexFile	21
9	Cost/Hour JSON Creation Warning	Final data check before creating Cost/Hour submittal	FlexFile	22
10	Actual with Hours no Dollars Report	Source Data Report showing hours no Dollars	FlexFile	23

Standard Category Blank Filter

A new Filter Option has been added to the Category Mapping Rules. This filter is also included for Legacy Database under FDE Mapping Rules

Allows for the quick view of Missing Mapping after importing.

The screenshot displays the 'Standard Category Mapping Rules' window. At the top, there are tabs for 'Map using Functional Category', 'Map using WBS/Functional Category', and a checked 'Set Category Mapping Rules'. Below the tabs is a toolbar with various icons and a 'Clear Category Mapping' button. The main area contains a table with the following data:

	Category	Category Description	Type	Standard Category
1	COM	COM - Description	COM	FCCM
2	ENG LAB	ENGINEERING LABOR	ENG LAB	Direct Engineering Labor
3	ENG LAB	ENGINEERING LABOR	ZZ10EB	Direct Engineering Labor
4	ENG LAB	ENGINEERING LABOR	ZZ31EB	Direct Engineering Labor
5	ENG LAB	ENGINEERING LABOR	ZZ44EB	Direct Engineering Labor
6	ENG LAB	ENGINEERING LABOR	ZZZ000	Direct Engineering Labor
7	ENG LAB	ENGINEERING LABOR	ZZZ001	Direct Engineering Labor
8	ENG LAB	ENGINEERING LABOR	ZZZ003	Direct Engineering Labor

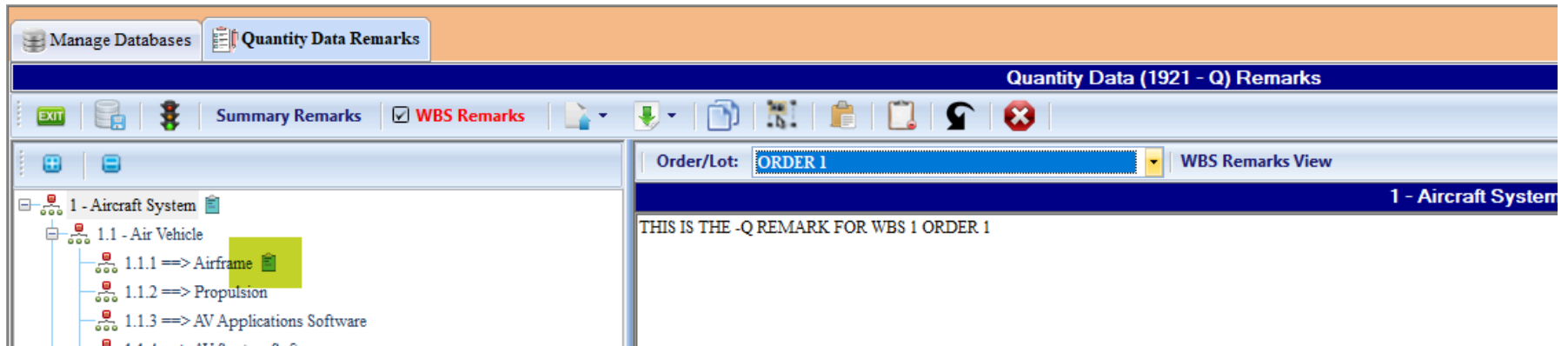
On the right side of the window, there is a 'Detailed Standard Categories (Tier 2)' panel with a list of categories and checkboxes:

- Engineering Labor Overhead
- Direct Manufacturing Touch Labor
- Direct Manufacturing Support Labor
- Direct Manufacturing Tooling Labor
- Direct Manufacturing Other Labor
- Manufacturing Operations Labor Overhead
- Direct Maintenance Touch Labor
- Direct Maintenance Support Labor
- Direct Maintenance Other Labor

Quantity Data Remarks

Similar to the WBS Definitions, WBS Summary Remarks and WBS Remarks.

The Quantity Data Remarks now includes a "Indicator" where a Remark has been detected.



The screenshot displays the 'Quantity Data Remarks' application window. The title bar reads 'Quantity Data (1921 - Q) Remarks'. The interface includes a menu bar with 'Manage Databases' and 'Quantity Data Remarks'. Below the menu bar is a toolbar with icons for 'EXIT', 'Summary Remarks', 'WBS Remarks' (checked), and other standard functions. A tree view on the left shows a hierarchical structure: '1 - Aircraft System' expanded to '1.1 - Air Vehicle', which contains sub-items '1.1.1 ==> Airframe', '1.1.2 ==> Propulsion', and '1.1.3 ==> AV Applications Software'. The 'Airframe' item is highlighted in green. The main pane on the right shows 'Order/Lot: ORDER1' and 'WBS Remarks View'. Below this, a dark blue header reads '1 - Aircraft System' and the main content area displays the text: 'THIS IS THE -Q REMARK FOR WBS 1 ORDER 1'.

WBS Defintions - Not Applicable




For Reporting WBS Elements which are Not Applicable for the Reporting Contractor, in the WBS Definitions:

- Enter N/A, or NA or Not Applicable at the Beginning or the End of the WBS Definition
 - If used at the End of the WBS Definition, close it out with a Period (e.g. Not Applicable.)
- Using these values as indicated will avoid a Validations WARNING where a Reportable WBS is Marked for Reporting, has a WBS Definition, but has no FAC.

Clear All Units/Sublots

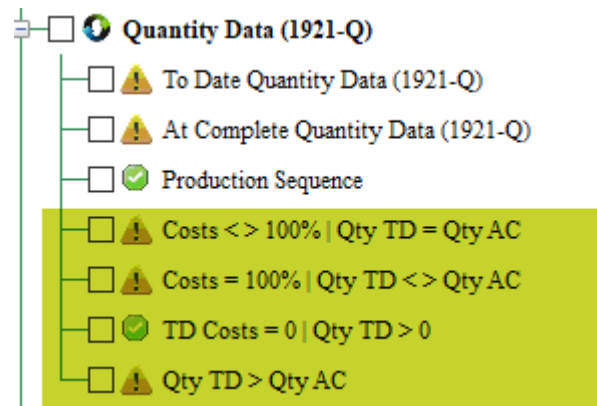
Clear All Units/Sublots will now delete all rows. Prior to this being added a single row at a time was only allowed to be deleted.

Note: when deleting Units/Sublots in the Setup module will also remove ANY associated Unit/Sublot Allocation records.

Format 2011		FlexFile			
FlexFile Unit/Sublots					
 Add Unit/Sublot		 Delete Unit/Sublot		 Clear All Unit/Sublots	
First Unit/Last Unit Sequence Required: NO					
	Unit/Sublot ID	First Unit #	Last Unit #	Order/Lot	End Item
1	UNIT 1	1	2	ORDER 1	RADAR 1
2	UNIT 3	5	6	ORDER 2	RADAR 1
3	UNIT 2	3	4	ORDER 2	RADAR 2

Quantity Date Validations

4 new Quantity Data (1921-Q) Validations have been added.



Costs <> 100% | Qty TD = AC

for the Reportable WBS/Order/Lot combination, the To Date Costs <> At Complete Costs. However, the Quantity To Date equals the Quantity At Complete.

Costs = 100% | Qty TD <> AC

for the Reportable WBS/Order/Lot combination, the To Date Cost = the At Complete Costs. However the Quantity To Date does not equal the Quantity At Complete.

TD Costs = 0 | Qty TD > 0

for the Reportable WBS/Order/Lot combination, the To Date Costs = 0. However the Quantity To Date is greater than zero.

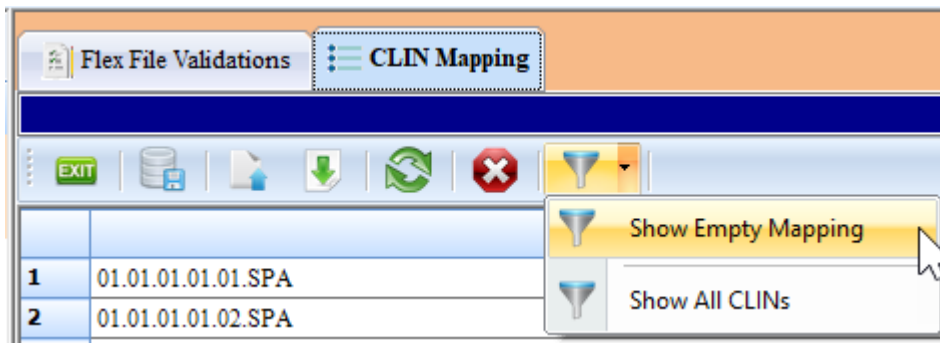
Qty TD > Qty AC

for the Reportable WBS/Order/Lot combination, the Quantity To Date values are greater than the Quantity At Complete Values.

CLIN Mapping New Filter

A new Filter has been added to CLIN Mapping.

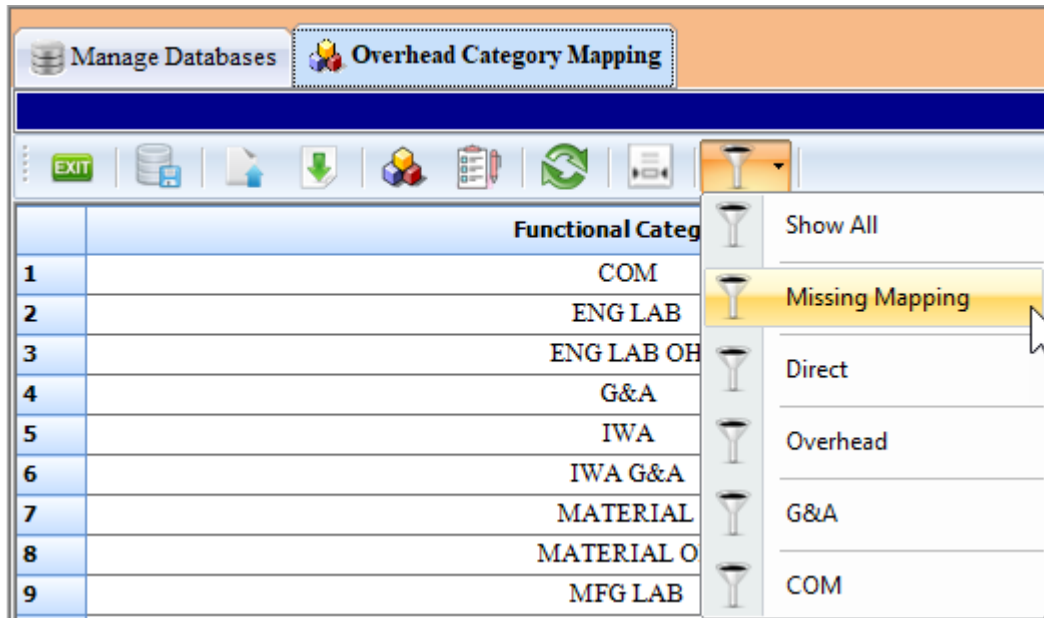
- Filter for Blanks
- Filter for Show All



OH Category Mapping New Filter

A new Filter has been added to Overhead Category Mapping.

- Filter for Missing Mapping



Orders/Lots and End Items: Include In Reports = False

Within the Orders/Lots and End Items setup, when an Order/Lot is NOT selected or UnSelected to Include In Reports, upon saving - C*^oCERT+ will then clear any associated data with that Order/Lot such that this data will not longer show up anywhere in the FlexFile Process.

The User is provided with a WARNING dialog indicating associated data will be removed.

This gives the user a last chance to first export any data they may want to keep prior to the removal of this data.

The screenshot shows the 'Manage Orders/Lots and End Items' window. At the top, there are tabs for 'Manage Databases' and 'Manage Orders/Lots and End Items'. Below the tabs is a toolbar with 'EXIT', 'Add Order/Lot', 'Delete Order/Lot', and other icons. A table below the toolbar lists items with columns for 'Include In Reports', 'Order/Lot ID', 'Order/Lot Name', 'Phase Or Milestone', 'Customer Name', and 'Contract Type'. Item 1 has 'Include In Reports' checked, while item 2 has it unchecked. A warning dialog box is open, titled 'Set Order/Lot for Exclude In Reports = False'. The dialog contains a warning icon and text stating: 'C*^oCERT+ detected 1 Orders/Lots configured for Exclude In Reporting. Excluding Orders/Lots will remove Any Associated Data: DD 2794 WBS Allocations, Units/Sublots Setup, Units/Sublots and Allocations, Summary Remarks (Cost Hour and 1921-Q), WBS Remarks (Cost Hour and 1921-Q), Quantities To Date, Quantities At Complete. The removal of this associated data is unrecoverable! ARE YOU SURE?'. At the bottom of the dialog are 'Yes' and 'No' buttons.

	Include In Reports	Order/Lot ID	Order/Lot Name	Phase Or Milestone	Customer Name	Contract Type
1	<input checked="" type="checkbox"/>	1	ORDER 1	PRE_A	MDI	CPAF
2	<input type="checkbox"/>	2	ORDER 2	C_LRIP	MDI	CPAF

Set Order/Lot for Exclude In Reports = False

C*^oCERT+ detected 1 Orders/Lots configured for Exclude In Reporting

Excluding Orders/Lots will remove Any Associated Data:

- DD 2794 WBS Allocations
- Units/Sublots Setup
- Units/Sublots and Allocations
- Summary Remarks (Cost Hour and 1921-Q)
- WBS Remarks (Cost Hour and 1921-Q)
- Quantities To Date
- Quantities At Complete

The removal of this associated data is unrecoverable!

ARE YOU SURE?

Yes No

Cost/Hour JSON Creation: Warning

A final data validation check is processed prior to the JSON Cost/Hour creation.

Checks for Validations that could possibly result in a CADE Portal Upload Failure is first processed.

Even though these are included in the C***CERT+** Validations, should these Validations not get the Attention they deserve these final checks gives the user one more chance to fix potential CADE Upload Failure issues.


Note: C***CERT+** will not prevent the creation of the Cost/Hour if the user selects to continue. It is at the Users own risk to continue with the process even with known Validations.

Items Checks:

1. Accounts using CLINS Not Excercise/Awarded found
2. CLINS missing Descriptions found
3. Accounts missing CLIN mapping found
4. Functional Categories missing Descriptions found
5. Overhead Functional Categories missing Descriptions found
6. Functional Category missing Overhead Category Mapping found
7. Accounts missing R/NR Mapping found
8. Accounts missing Standard Category Mapping found
9. Accounts missing Description found
10. Accounts missing Actual Cost Allocations found

Example:

WARNING: FlexFile Validations Trips Remain

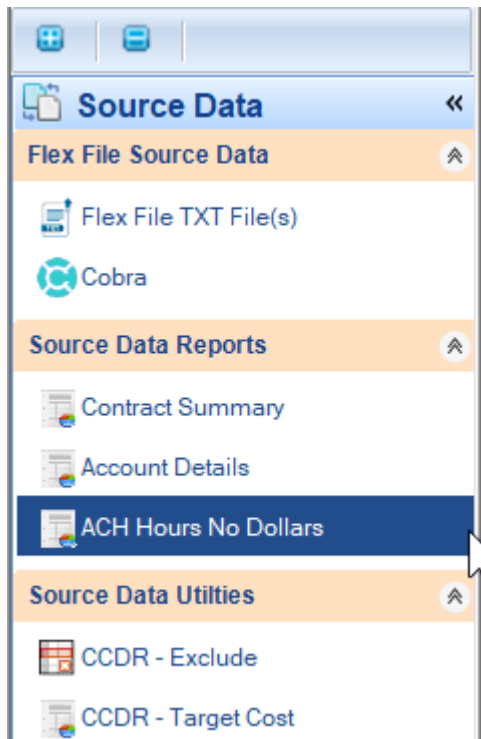


The following Validations will cause CADE PORTAL UPLOAD FAILURE!
PLEASE Execute C***CERT+** Validations for further Analysis!

- Accounts missing CLIN mapping found
- Accounts missing R/NR Mapping found
- Accounts missing Standard Category Mapping found
- Accounts missing Actual Cost Allocations found

CONTINUE to Create Cost/Hour FlexFile?

Actual with Hours No Dollars Report



The Source Data Report: Actuals with Hours but No Dollars provides a list of Account Details which contain a Non Zero Hour value and a Zero Dollar value within a given Accounting Period.

These records will be filtered out of the FlexFile Actual Cost Hour table process.

The Government has asked that Zero records not be included in this JSON table as it has the potential to be very large due to the By Period reporting requirement.

In C*CERT+, a Record where the Value_Dollars column is zero defines a Zero Record.

- the Value_Dollars field can be the sum of any of these combinations, defined in the Report Configuration:

- Direct + Overhead
- Direct + Overhead + G&A
- Direct + Overhead + G&A + COM

- an assumption is made that if there are Non Zero Hour records then there would also be Non Zero Direct Dollars and therefore the Value_Dollars field would not be Zero

Updates

Item	Module	Update
1	Legacy	Using XML as Source Data Type. Multiple XML files can now be imported
2	Legacy/FlexFile	Database Archive: No longer receive "Database Busy" when Archiving Current Connected Database
3	FlexFile	Orders/Lots and End Items Setup: When Saving or Importing - C*CERT+ will now TRIM all TEXT Fields (Remove Spaces) to avoid errors in Validations and other processes
4	Legacy/FlexFile	Source Data Import: for all Invalid incoming Parent Elements, a list will now be provided. This usually happens with the Parent Element was not imported as a child first
5	FlexFile	Functional Overhead Category Mapping: Incoming FOH Code is now converted to a STRING. Updated to accomodate when Excel converts to numeric when using Template.
6	FlexFile	Orders/Lots and End Items: Using the Delete key no longer Delete's the entire row. Now it Delete's the selected cell value.
7	FlexFile	Units/Sublots Setup: During Save and Import - C*CERT+ will now TRIM all TEXT Fields (Remove Spaces) to avoid errors in Validations and other processes
8	FlexFile	Category Mapping Rules Import - C*CERT+ now converts all incoming SC Codes to STRING and to UPPER CASE and TRIMS (Remove Spaces) to avoid missing mapping
9	FlexFile	WBS Remarks: can no longer SAVE unless a WBS Remark Category has been selected
10	FlexFile	Overhead Category Mapping: for G&A and COM Mapping Indirect Codes - the 'Not Applicable' is now updated in the User interface in both a SAVE and an Import
11	FlexFile	Units/Sublots Allocation: during import, any Zero Percentage found will now be imported, not ignored, which will update any non-zero allocation accordingly
12	FlexFile	Final Report Validation now broken out by Orders/Lots
13	FlexFile	Quantity Data: Zero Entries are now automatically included during a SAVE or Import. The Zero Entry Option Box has been removed.
14	FlexFile	Allocation Components JSON table - now includes the Order/Lot and End Item links - preventing any potential doubling of record creation
15	Legacy/FlexFile	All Find Account options have been updated for Match Case. No longer searches for the entire Account. Will now do a Best Match. Text must be entered as Case Sensitive.
16	Legacy/FlexFile	Unit/Lot (Legacy) and Unit/Sublots(FlexFile) - Allocations can now be entered or imported by either Percentage Allocation or Dollar Amounts
17	FlexFile	Saving Overhead Category Setup will now update the OH Category Code Descriptions in the Overhead Category Mapping where the codes match
18	Legacy/FlexFile	Report Compare now uses the Current Database WBS Code Description. This to avoid Duplicates where in the Current Submittal a WBS Description was modified by the customer from the Previous Submission. A Cell Note will be provided with the Previous Description where WBS Descriptions on the same WBS have changed.
19	Legacy	Meta Data: Contract Price and Contract Ceiling exporting out as Zero. This as been resolved.