CDMS User Community Meeting Item to Form Linking - 22R1 Feature Highlight May 2022



Customer Success Managers (CSM), CDMS Customer Success







Megan Ferris CSM, Presenter



Veeva

Melanie Migliore CSM, Presenter

Interact With Us!



<u>Questions?</u> cdmscustomersuccess@veeva.com





Agenda

Feature Review

- Role specific perspectives
 - CRC
 - Data Reviews
 - Extracts and Listings
 - Studio Design
- Safety Updates
- References & Upcoming Dates

- Why this feature was added?
 - More specificity and seeing the specific items directly on the form
 - Reduce toggling from form to linked form
 - People forgetting to link forms
 - Refined per needed query rules, so sites don't miss linking the related data progressive display & making it required
- Where can this be found?
 - Data Entry and Review tabs UI
 - In the Data Extracts and also Coder we'll take you through these in more detail as part of this community webinar





Common Forms: Adverse Events: Reference #3 of 3 < >		✓ Complete ····	#1 of 2 < >	JEdit Form ••••
Severity	 Mild Moderate Severe 		ANT (0) COPD System 1/20/2022 2:13 PM EST ①	
Serious?	O Yes O No		Data Management There are two AE forms with the same term. Edit Value Comment	
Relationship to Study Treatment	O Not Related O Related		No A	
Action Taken with Study Treatment				×
Other Action(s) Taken Not Related M				1-1 of 1
Another Medication Given				
Procedure	iven			
Select Procedure P				Cancel Save
Other Action Not Related to Study Treatment	0 / 200	Another Me		
Outcome				
Did the Adverse Event Cause the Subject to Be Discontinued From the Study?	O Yes O No			

Adverse Events: Reference #2 of 3		y Lui tom
Other Action(s) Taken Not Related to Study Treatment (select a	all that apply):	
nother Medication Given	\checkmark	
Select all related Medications at the bottom of the form		
ocedure		
elect Procedure	Form Diagnostic and Medical Procedures Reference # 1 Name of Procedure Additional medication given	Δ
her Action Not Related to Study Treatment		
itcome	Recovered/Resolved	
itcome d the Adverse Event Cause the Subject to Be Discontinued	Recovered/Resolved From the Study?	
utcome d the Adverse Event Cause the Subject to Be Discontinued lated Medication(s) (1 of 1)	Recovered/Resolved Δ From the Study?	
ttcome d the Adverse Event Cause the Subject to Be Discontinued lated Medication(s) (1 of 1)	From the Study? Form Concomitant Medications Reference # 2	
tcome d the Adverse Event Cause the Subject to Be Discontinued ated Medication(s) (1 of 1)	From the Study? From the Study? Form Concomitant Medications Reference # 2 What was the term for the Tylenol medication / therapy taken ?	
Itcome d the Adverse Event Cause the Subject to Be Discontinued lated Medication(s) (1 of 1)	From the Study? From the Study? Form Concomitant Medications Reference # 2 What was the term for the Tylenol medication / therapy taken? Start Date 21-Apr-2022	
utcome d the Adverse Event Cause the Subject to Be Discontinued lated Medication(s) (1 of 1)	From the Study? From the Study? Form Concomitant Medications Reference # 2 What was the term for the Tylenol medication / therapy taken? Start Date 21-Apr-2022 Dose 2	
utcome d the Adverse Event Cause the Subject to Be Discontinued lated Medication(s) (1 of 1)	From the Study? From the Study? Form Concomitant Medications Reference # 2 What was the term for the Tylenol medication / therapy taken? Start Date 21-Apr-2022 Dose 2 Dose Unit Tablet	

Procedure			
Other Action Not Related to Study Treatment			
Jutcome	Recovered/Resolved		
id the Adverse Event Cause the Subject to Be Discontinued From the Study?	No		
elated Medication(s) (1 of 2)			
elect Related Medication(s)	Form Reference # What was the term for the medication / therapy taken? Start Date Dose Dose Unit Dose Frequency	Concomitant Medications 1 Advil 19-Apr-2022 1 Tablet Once	
elated Medication(s) (2 of 2)			
elect Related Medication(s)	Form Reference # What was the term for the medication / therapy taken? Start Date Dose Dose Unit	Concomitant Medications 2 Tylenol 21-Apr-2022 2 Tablet	۵







Data Review

Overall Benefits for Data Review

- Facilitate and speed for SDV and DMR
 - On screen, no need to jump from one screen to another
 - On extract, linkage information available in datasets/listings
- Increased data quality
 - Item can be required, allowing for a query to be raised if the item link is blank
 - Manual Queries can be applied to item links
 - Can be frozen and locked like other items on the CRF



- As with any other item, a reviewer with permission can:
 - Query
 - Mark as Reviewed
 - Freeze
 - Lock
 - Create a Protocol Deviation
 - View the Audit Trail

elect Related Medication(s)	Form Concomitant Medications Reference # 1 What was the term for the Aspirin		
	medication / therapy taken? Start Date 03-May-2022	ACTIONS	
	Dose Unit mg Dose Frequency Every Four Hours	* Freeze Item	0
	Bill/OPA Nazzaro 5/17/2022 4:33 PM EDT	Create Protocol Deviation VIEW	0
	ConMed Start Date is prior to AE Start Date. Please review and correct.	3 Item Audit Trail	
	Close Query		







Data Extracts

Extraction of item to form linking data

- Data regarding item to form linking information can be found in different extracts
 - Study Data Extracts System Datasets
 - SYS_LINKS: no changes. Show the link between forms using the sequence number

EGROUP	EVENT	EVENTEID	ESEQ	FORM	FORMEID	FSEQ
Common Forms	Common Forms	evLOGS	1	Adverse Events	AE	1
Common Forms	Common Forms	evLOGS	1	Concomitant Medications	CM	1

- Study Data Extracts Clinical Datasets / Core Listings
 New variables available on datasets where link was created
 - (Form Link ItemDef Name)_DEF : Ex AE_CM_DEF
 - (Form Link ItemDef Name)_LINKEDFORMID
 - LINKEDITEM
 - ITEMLINKEDTO

SYS Dataset contents are outlined in <u>CDMS Help</u>

Generating the SDE

- EDC Tools > Select Study > Jobs > New Job > Study Data Extract •
- **Complete Job Options** •

New Job	×	Clinical Data Options
Type Study Data Extract SDE Version Version 22R1	Frequency Run Now	Use Item External ID instead of Item Name for column headers Include separate Date and Time columns for Datetime items
Restricted Data Options Include Restricted Data		Include forms intentionally left blank
Clinical Data Options Use Item External ID instead of Item Name for column headers Include separate Date and Time columns for Datetime items Include forms intentionally left blank Exclude blank forms		Exclude blank forms
Data to Export Image: Construct the second		Zip File Name 0
Export Options Zip File Name		
· · · · ·	Cancel Run Now	

.zip

Generating the SDE

Complete Data Export

New Job		×	System Da	tasets (0)	Clinical Datasets (0)
/ре	Frequency				
Study Data Extract	Run Now	•		Q	
DE Version 0			Available System Datasets	s	elected System Datasets
ersion 22R1			Available System Datasets		elected bystem Datasets
			Event System Dataset (SYS_EVT)	••	
estricted Data Options			Form System Dataset (SYS_FORM)		
Include Restricted Data			Intentionally Left Blank System Dataset		
linical Data Options			(SYS_ILB)	•	
Use Item External ID instead of Item Name for column headers			Links System Dataset (SYS_LINKS)		
Include separate Date and Time columns for Datetime items			Protocol Deviations System Dataset	44	
Include forms intentionally left blank					
Exclude blank forms			System	n Datasets (0) Clinical Datasets (1)
ata to Export					
Export all System Datasets V Export all Clinical Datasets Include Custom Objects			Search	Q	Restore del
xport Options			Available Clinical Datasets		Selected Clinical Datasets 1 selected
p File Name 0					
.zip			PR	••	AE
xport File Type			safety_follow_up		
			ENRL		
			IE	•	
		Cancel Run Now	MU		
			MH	-	
			Randomization		

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Core Listings

- EDC Tools > Select Study > Jobs > New Job > Core Listings
- Review > Select Study > Listings & Exports > New > Core Listings

pe			Frequency	
ore Listing	-		Run Now	
	Forms (3) Sites (1)			
Search	Q	Restore defaults		
Available Forms	Selected Forms			
safety_follow_up	AE			
ENRL	MH			
E	СМ			
Randomization	4	*		
MC	•			
B				
ZDA				
/S9				
ECG				

Clinical datasets variables

Variable Name Variable Example	Description
(Form Link ItemDef Name)_DEF Ex: AE_CM_DEF variable or AE_PR_DEF variable	External ID of the item used to create the form linking If multiple items to form linking in the CRF page, multiple variables will be shown in extract (1 per item link)
(Form Link ItemDef Name)_LINKEDFORMID Ex: AE_CM_LINKEDFORMID	Form OID of the linked form (system code automatically generated)
ITEMLINKEDTO	Display the number of forms and forms names that are linked to a particular record as well as the display items (up to 5) chosen during the build
LINKEDITEM	Display the number of forms and the item label used to link information

Clinical datasets variables

STUDYID COUNTRY	SITENUM	SUBJID	EVENT	ESEQ FORM	FORMEID	AETERM	AE_CM_DEF	AE_CM_LINKEDFORMI	L ITEMLINKEDTO	LINKEDITEM
									2 Form(s): Select Procedure: Diagnostic and Medical Procedures [PR] (#1) Name of Procedure =	
					_				MRI Select Related Medication(s): Concomitant Medications [CM] (#2) What was the term	
									for the medication / therapy taken? = ADVIL, Start Date = 01-May-2022, Dose = 500, Dose Unit =	2 item(s):Adverse Events [AE] (#1) Select Related Medication(s) Adverse Events [AE] (#1)
Labrinone-8_DEV1 United States	102	SCR-0005	Common Forms	1 Adverse Event	ts AE	HEADACHE	Concomitant Medications [CM] (#2)	OPT00000053045	mg, Dose Frequency = QD	Select Procedure

AE "Headache" is linked to Concomitant Medication Form record #1 (which has a FormOID).

The AE form is linked to 2 forms (Procedure and Concomitant therapy). Following items were used to make the link.

Delimiter if multiple links is the "pipe" char.

Not shown due to space issue but on same row you'll find description to the Procedure form link

AU		AV
AE_PR_DEF	•	AE_PR_LINKEDFORM
	• •	0.0700000000000000000000000000000000000
Diagnostic and Medical Procedures [PR] (#1	L)	0P100000041003

Output when ILB

	✓ Complete
AC	TIONS
	Intentionally Left Blank
5	Reset Form
EX	PORT
0	Export Blank PDF
0	Detail PDF
VIE	EW
5	Form Audit Trail

If a record previously linked to another record is Set Intentionally Left Blank

- The link is kept and visible in the outputLinked items are showing as "null"

AE_CM_DEF	AE_CM_LINKEDFORMID	ITEMLINKEDTO	LINKEDITEM
		2 Form(s): Select Procedure: Diagnostic and Medical Procedures [PR] (#1) Name of Procedure =	
		MRI Select Related Medication(s): Concomitant Medications [CM] (#1) What was the term	
		for the medication / therapy taken? = null, Start Date = null, Dose = null, Dose Unit = null, Dose	2 item(s):Adverse Events [AE] (#1) Select Related Medication(s) Adverse Events [AE] (#1)
Concomitant Medications [CM] (#1)	OPT0000004U001	Frequency = null	Select Procedure

Output when Reset Form

		✓ Complete	
AC	TIONS		
	Intentionally Le	ft Blank	
5	Reset Form		
EXF	PORT		
8	Export Blank PD	DF	
8	Detail PDF		
VIE	W		
5	Form Audit Trail		

When resetting a form:

- 1. Remove the link first choosing the "Clear" option
- 2. Reset the form

Output will not show the link as it has been cleared







Seeing Item to Form Linking in Coder (1)

Coding Status: All - Query Status: All - Site: All - Subject:		Concomitant Medications: Reference #2 of 2		C	≣ ∃	\$ -	
			Start Date	03-May-2022			
	Verbatim Search Verb Q	Indication	Is the medication / therapy still ongoing?	Yes	/ Status	Query Age (D)	Notes Status
	ADVIL Q		End Date				
	INSULIN		Dose	500			
		*	Dose Unit	mg			
			Dose Frequency	Twice Daily			
			Route	Oral			
			Reason for Medication	Adverse Event			
			If Other, Specify				
			Select Medical History				
			Related Adverse Event(s) (1 of 1)				
			Selected Related AE(s)	Form Adverse Events Reference # 1 Adverse Event HEADACHE Other Action Taken Start Date 03-May-2022 End Date Ongoing? Yes			
				Close			



Studio Designers

Considerations During Study Build

- Which form(s) will I use item link(s)?
- What wording will I use for the item link?
 - The reason for relating the form(s) to the item
 - Other medication given? [for the AE] vs. Did this Medication cause an AE?
- What questions from the linked form should be included?
- Will my item link need to be able to select more than one?
- Rule Considerations
 - Progressive Display and Required checks for item links (reduces user defined rules)
 - User defined rules for evaluating data in the linked form

Considerations During Study Build

• Library Collection revisions

Copy From S	Study						
How should de Create	uplicate definitions be handled? a copy Use existing	Update with Changes	ies ASH ▼ Enviro	onment VEEVA_CD	ASH_DM2_DEV1		
► Filter By (Classifications						
Search	Q				∛Vault CDMS	Search Subjects	
	Name 🔺	Label	Repeating	External ID	Data Entry Library	Review Assessments Studio Coder	≽
V	AE	Adverse Events	Yes	AE	\Lambda My Studies 🖒 La	brinone - > Labrinone_DEV1	
	CM	Prior and Concomitant Medications	Yes	СМ	STUDY DESIGN	Form Links	
					Schedule Settings Assessments (1) Email Groups (1) Form Links (3)	Name Description AE to CM AE to EOS CM to MH	





Item Links - Single

AE - related Procedure



EOT/EOS -Discontinued due to AE

-			
IF Sta	tus 📢 2		
Se	lect an option V		

Item Links - Multiple



Rule Expression Examples - Repeat IG



The same link is selected more than once

```
1 #define CM_TERM_AGG @Form.igAE_CM[*].AE_CM
2 #define CM_TERM @Form.igAE_CM.AE_CM
3
4 CountIf(CM_TERM, CM_TERM_AGG) > 1
```

Rule Expression Examples - Repeat IG

Another Medication Given	 System 5/18/2022 3:17 PM EDT ① Another Medication Given is Yes, but there is no ConMed linked. Edit Value Comment 	
Select all related Medications at the bottom of the form		
Procedure		
Other Action Not Related to Study Treatment		
Outcome		No Link has been added to
Did the Adverse Event Cause the Subject to Be Discontinued From the Study?		the repeating IG.
Related Medication(s)		
lo records to display	1 #defin	e AE_CM @Form.igAE_CM[1].AE_CM
	2 #defin	e AECONTRT @Form.igAE.AECONTRT
	3	
	4 IsBlan	k(AE_CM) && AECONTRT

Rule Expression Examples - Checking Values

completion or Discontinuation Date	17-May-2022
itatus	Adverse Event
	Form Adverse Events
	Reference # 1
	Adverse Event Headache
	Start Date 09-May-2022
	End Date 18-May-2022
	Serious? No
	Did the Adverse Event
	Discontinued From the
	Study?
Select AE	System 5/17/2022 5:58 PM EDT ①
	The Linked AE form end date cannot be greater than
	the End of Study date
	Sedit Value
	System 5/17/2022 5:58 PM EDT ①
	The Linked AE form must record that it is the cause of the subject's withdrawal.
	Sedit Value Comment

AE Stop Date is > Date of Discontinuation:



Did the AE cause the Subject to Be Discontinued From the Study? Is not Yes for the linked AE

```
1 #define AELink @Form.igEOS.DSREASAE/igAE.AEDIS
2
3 AELink != "Y"
```

Rule and Validation Best Practices

- Use validated features to reduce Rule programming and UAT efforts
 - Use Progressive Display
 - Use Required Checks
 - Review and remove any previous User Defined Rules
- Create User Defined Rules to evaluate data values in linked forms
 - Confirm start/end dates for linked items
 - Confirm the same link is not chosen (where more than one is selected)
 - Confirm the linked AE data is appropriate for subject disposition DSET/DSES forms
- Take advantage of Library reports to confirm reuse and reduce UAT



Safety Link Configuration

Safety Link

- Using Item to Form linking, customers using our Safety Link integration can include 'Characterization of Drug Role' in a case
 - Requires a code list item included within the link item Item Group
 - Configuration is done on the CM section of the E2B

Edit	Code	elist		
Name		AE_Drug_Role	External ID	AE_Drug_Role
Descri	escription			
		Cada	Label	Decesieilee
•		Code	Label	Description
0	H	Code	Label Suspect	Description

Concomitant Medication	s			
		Include Concomitant Medications	• Yes No	
		Concomitant Medications Form*	CM_1 (Prior and Concomitant Me	dications) 💌
Concomitant Medications F	ïelds			
E2B ID 🔺	E2B Element		E2B Data Type	Mapped Item
G.k.1 0	Characterization of Drug Role		Number (1)	drug_role (Drug Role)



Closing

- Why this feature was added?
 - More specificity and seeing the specific items directly on the form
 - Reduce toggling from form to linked form
 - Users forgetting to link forms
 - Refined per needed query rules, so sites don't miss linking the related data progressive display & making it required

References

- About the 22R1 Release
- What's New in 22R1
- <u>Release Impact Assessment (xls)</u>
- <u>Compliance Docs Registration</u>
- <u>Community</u>

Upcoming Webinars & Releases

Important Dates

- Look for upcoming Webinars this summer
- > Next Release
 - 22R2 Aug 5th

Veeva Trust Site

https://trust.veeva.com/

Veeva Vault CDMS Maintenance 21R3.0.19- No expected downtime
01/12/2022 7:00 pm PST
There is a 21R3.0.19 maintenance release scheduled for the Veeva Vault CDMS service on Wednesday, Jan 12th at 7:00 PM PT for CDMS PODs: W1-22 , W1-1090 , W2-2092 , W1-1127 , W3-3121,W1-1139,W1-17,W1-37
Approximate duration is 30 minutes with no expected downtime.
For more details, please visit our 21R3 Release Notes

Email for feedback and Suggestions for upcoming Webinar topics

cdmscustomersuccess@veeva.com

Questions? cdmscustomersuccess@veeva.com





Thank you