CDISC GS User Group Meeting

Pinnacle21: basic version versus enterprise version

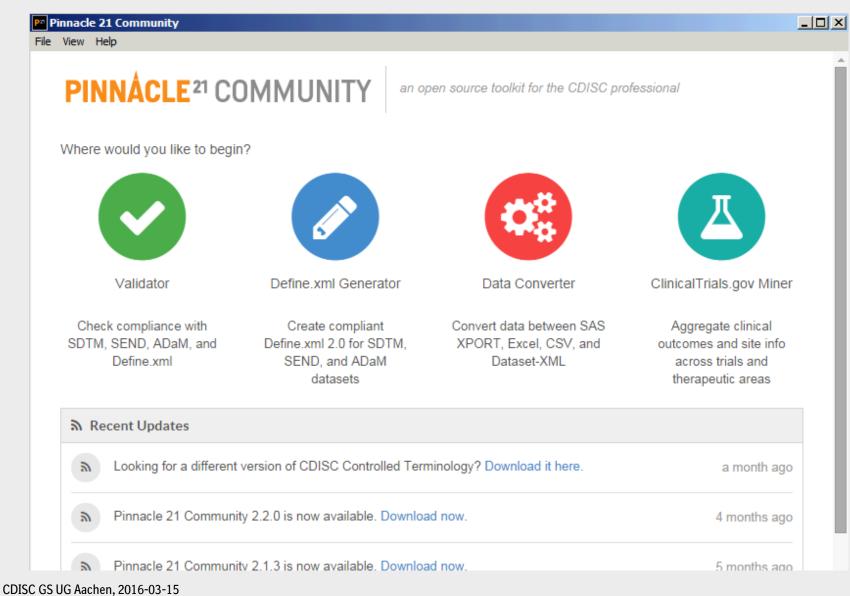


14 February 2017



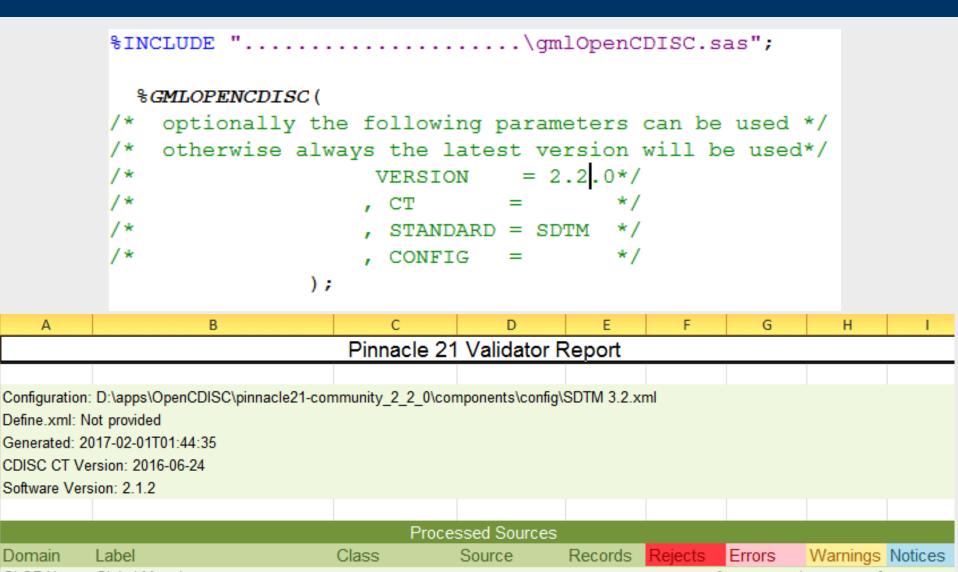
Basic Version - Community Tool Interactive version





Basic Version – Community Tool SAS Macro





Issue Summary

Details / Rules

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Dataset Summary

Enterprise – Main Features 1



DATA VALIDATION FEATURES	COMMUNITY	ENTERPRISE
Validate SDTM, SEND, ADaM, and Define.xml	4	×
Metadata driven and configurable	~	*
Data composition and quality reports		×
FDA Data Fitness assessment scorecards		¥
Manage issues throughout the study lifecycle		×
Communicate and collaborate with partners		×
Monitor data quality improvement over time		1
Track changes across validations		~
Customize specs for SDTM+ or sponsor formats		×
Design rules for projects, studies, and partners		~
DEFINE XML FEATURES		
Create Define.xml 2.0 for SDTM, SEND and ADaM	<i>~</i>	*
Convert Define.xml 1.0 files into Define.xml 2.0	~	×
Extract metadata from SAS datasets	<i>~</i>	*
Extract origin page numbers from annotated CRFs		×
Merge metadata from external specifications		×
Generate Define.pdf		×
Validate Define.xml content in real-time		×
Compare content with standards and other studies		~
Track changes between versions		×
OTHER FEATURES		
Deployment Options	Desktop	Web Hosted
Automated software and rule updates	<i>~</i>	×
Central configuration and management		1
Sandbox environment for training and testing		×
Increased scalability		×
Software license	Open Source	Subscription
IC Apphan 2016 02 15		

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- **Data Validation** per FDA and PMDA requirements incl.
 - Issue Tracking and Management: Add comments, keep through the validation runs, see improvement
 - Change History
 - Scorecards: Data Quality and Fitness towards FDA/PMDA standard analysis methods
 - Support of SDTM, SEND, ADaM, Define.xml and company standards
- **Define.xml** creation
- **Reviewer's Guide** creation: based on Phuse template

Enterprise – Issue Tracking and Management



LL701: SDTM				Export Repo	
Analysis S	upport Datasets Issues History More Reports Comparison x				
	Change Type -			Print Copy	Download
Rule 0	Message ©	Severity 8 R	ate 🌣	∆ ≎ Risk ≎	Status ©
U66)					
SD1076	Model permissible variable added into standard domain	Warning 2.	7% 0	-	Open
SD1117	Duplicate records	Warning 49	9.8% 0		Open
SD0005	Duplicate value for PCSEQ variable	Error 45	9.8% 0	*	Open
SD1095	Invalid dataset name for split domain	Error 10	0 %00	-	Open
SD2239	Inconsistent value for PCTPT	Error 19	%0		Open
SD2006	Unexpected MedDRA coding in the SUPPQUAL domain	Error 53	3.3% 0		Open
SD2006	Unexpected MeXDRA coding in the SUPPQUAL domain	Error 57	7% 0		Open
SD0086	SUPPQUAL duplicate records	Error 47	7.4% 0	•	Open
CT2002	DOMAIN value not found in 'SDTM Domain Abbreviation' extensible codelist	Warning 10	00% 0	-	Open
SD1117	Duplicate records	Warning 18	8.5% 0		Open
SD1124	Missing value for XDREASND, when XDSTAT is 'NOT DONE'	Warning 54	4.7% 0		Open
101 Issues)					
SD1141	No Treatment Emergent info for Adverse Event	Warning -		*	Resolved
SD1201	Duplicate USUBJID/DECOD/STDTC record	Warning -			Resolved
SD0002	NULL value in AEDECOD variable marked as Required	Error -			Resolved
SD0060	AE start date is after the latest Disposition date	Error -		*	Resolved
	Analysis Su Rule C 300) SD1076 SD1076 SD1076 SD1076 SD2005 SD2239 SD22096 SD22096 SD2006 S	Analysis Support Datasets Issues History More Reports Comparison × Rule Message <td>Analysis Support Datasets Issues History More Reports Comparison x Rule 0 Message 0 Severity R set Severity R SD1076 Model permissible variable added into standard domain Yaming 2 SD1117 Duplicate records Yaming 4 SD0055 Duplicate value for PCTPT Error 4 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 1 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD1141 Duplicate records Yaming 1 SD1142 Duplicate records Yaming 1 SD1141 No Treatment Errorgent info for Adverse Event Yaming 2 SD1141 No Treatment Errorgent info fo</td> <td>Analysis Support Datasets Issues History More Reports Comparison × Support Datasets Issues History More Reports Comparison × Rule C Message C Severity C Rate C Support Severity C Severity C</td> <td>Analysin Support Datasets Issues History More Reports Comparison × Rule of Message Severity of Rate of X Rate of X</td>	Analysis Support Datasets Issues History More Reports Comparison x Rule 0 Message 0 Severity R set Severity R SD1076 Model permissible variable added into standard domain Yaming 2 SD1117 Duplicate records Yaming 4 SD0055 Duplicate value for PCTPT Error 4 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 1 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD2036 Unexpected ModDRA coding in the SUPPQUAL domain Error 3 SD1141 Duplicate records Yaming 1 SD1142 Duplicate records Yaming 1 SD1141 No Treatment Errorgent info for Adverse Event Yaming 2 SD1141 No Treatment Errorgent info fo	Analysis Support Datasets Issues History More Reports Comparison × Support Datasets Issues History More Reports Comparison × Rule C Message C Severity C Rate C Support Severity C Severity C	Analysin Support Datasets Issues History More Reports Comparison × Rule of Message Severity of Rate of X Rate of X

Enterprise - Dashboard



ACLE ²¹ ENTERPR	ISE				O Max Kanoniny + 🖼 Massages 🎦 + 🥐 Lagout		
10 M H	ome > Report 1	Mapp Pil > MP0001					
figure MI	P0001: S	DTM			Z Export Report		
gn Studies Da	shboard Analys	sin Support Datasets Issues History More Reports					
nape Metadata	Data Fitness Sc	ronscand	III Key	y Matrica	III Standarde & Dictionaries		
date)	Overall Sco	al Score SDTM Compliance		38 Suger	Standard Used SDTM-IG 3.1.2		
jaces -	36	Controlled Terminology 59	m 2	28 Total Datasets	Dictionaries Used MedDRA 17.1, SDTM-CT 2015-06-26,		
dies	30	Regulatory Conformance	m 1	164493 Total Paccenta	QRS-CT 2015-06-26		
	240 Issues		@ 1	Custom Detests	Thal Summary Define xml		
	7.7% Issue	Rate Analysis Support	ල 5	5 Supprover Determine	Reviewers' Guide Annotated CRF		
	III Severa lanues		III Imp	EII Impacted Analysis			
-	withy Dataset	have	Impact		Analysis		
Fle	Reject Define.xml Missing required 'FileOID' value for 'ODM'.		Conten	JReview AE Incident Percenta	ges Table with Verbatim Term		
Re	ect Define.xml	Missing required 'TranslatedText' value.	California	JReview AE Incident Percenta	ages Table with Verbatim Term with SOC Selection		
Re	Reject DM SDTM Required variable SEX not found Reject DM NULL value in SITEID variable marked as Required		Genter	JReview AE Incident Rates by Arm			
Par				JReview AE SOC Incident Per	centages by Am		
Em	or Define.xml	Invalid Mandatory value.	1000	JReview Baseline vs Max Sca	ther Picts		

Enterprise - Scorecard



Validation Spec 0	Score -		Pass/Fall 0	Domains 0	Issues 0	Failures 0	Errors 0	Warnings 0
General Data Quality (3 Profiles)								_
CDER Common Data Standards Issues	0	1	Fall	41	570	570	235	211
SDTM v3.1.2 General Data Quality		92	Pass	41	81	345,552	3,258	342,294
SDTM v3.1.3 General Data Quality		95	Pass	41	47	345,549	3,258	342,291
Laboratory Findings Analysis (6 Profiles	0							
JReview Labs Baseline vs Max/Min Scatter Plots	0	1	Fall	3	2	784	392	392
JReview Hy's Law Patient Listing	0		Fall	3	2	784	392	392
JReview Hy's Law Plots	0		Fall	3	2	784	392	392
JReview Liver Function Baseline Box Whiskers	0		Fel	3	2	784	392	392
eDISH		96	Pass	6	7	17,993	0	17,601
Liver Function Analysis Panel		97	Pass	3	7	17,283	29	17,254
Overall Survival Analysis (1 Profiles)								
Overall Survival Analysis Panel		97	Pass	7	3	349	0	349
Standards Compliance (3 Profiles)								
SDTM v3.1.3 Compliance		77	Pass	41	185	175,996	408	175,444
SDTM Controlled Terminology	11	65	Pass	41	30	208,466	19,166	0
SDTM v3.1.2 Compliance		90	Pass	41	165	66,485	411	65,939
Subject Disposition Analysis (1 Profiles)	E.							
Disposition Analysis Panel		59	Pass	4	2	629	392	237

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Enterprise version: helps you prepare for a submission, not just looking through a list of issues.

Scorecard used to determine if your Data is 'fit for use', eg. will your data support the FDA efficacy and safety review: SDTM compliance (Community version) is just one of the levers of an overall data scorecard.

Data fitness is an important FDA initiative.

Enterprise is an holistic approach to data quality and assures your data is fit for submission and helps to ensure rapid FDA review time.



- Pinnacle 21 provides the system as SaaS hosted in the US
- For a productive usage following options could be used:
 -On premise installation (expensive)
 -SaaS solution hosted in European/German data centers