

The joy (and pain) of implementing a higher SDTM and SDTMIG version - A sponsor story

Presented by Kathleen Hectors, Data Collection Standards Expert, Janssen R&D





Meet the Speaker

Kathleen Hectors

Title: Data Collection Standards Expert Organization: Clinical Data Standards & Transparency (Janssen R&D)

Role description: Developing data stream expertise and strategies, managing controlled terminology and biomedical concept dictionaries, supporting data managers and clinical programmers on collection and mapping of trial specific scientific data.

Volunteer in CDISC Microbiology & Immunogenicity Controlled Terminology team

13 years of experience in the pharmaceutical business; Joined Janssen in 2014 as Data Manager and Clinical Data Standards in 2017. Located in Beerse, Belgium

Holding a PhD in Biology from the University of Antwerp, Belgium



Disclaimer and Disclosures

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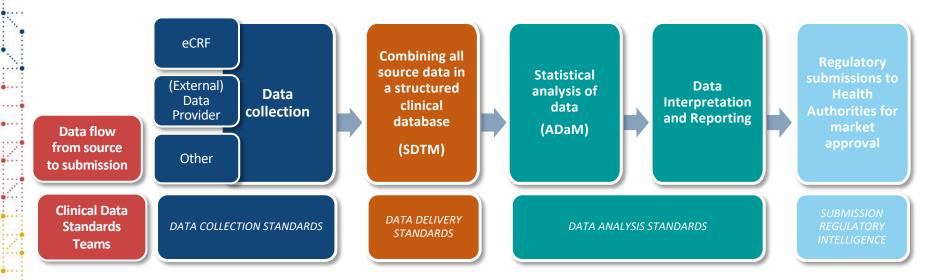
The author(s) have no real or apparent conflicts of interest to report.



Setting the stage

How Clinical Data Standards are organized and managed at Janssen

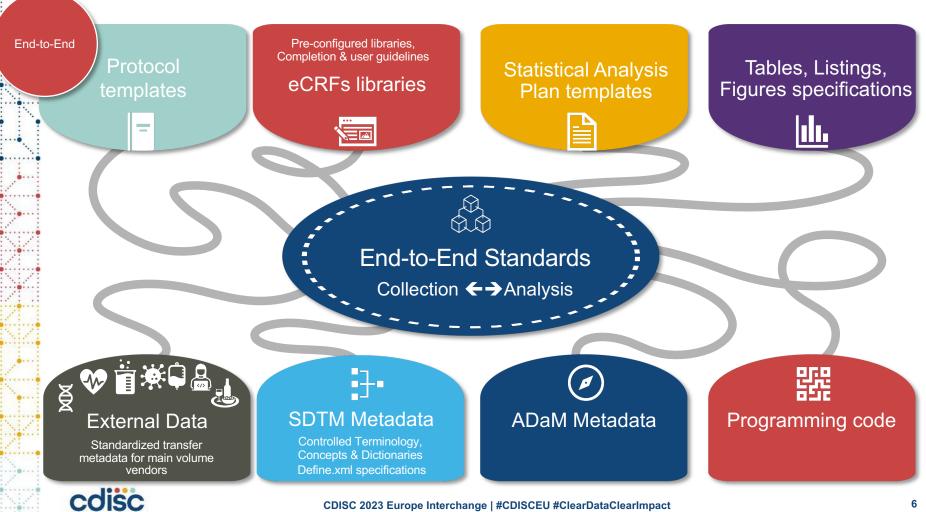
Organization of Janssen Clinical Data Standards



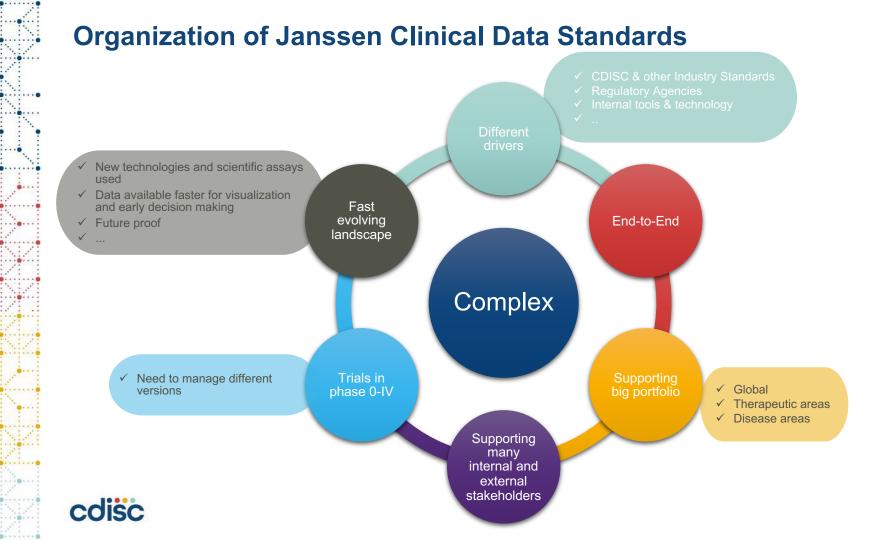
Standards components are available to support every step in this lifecycle.

Mission of Clinical Data Standards: Support End-to-End from data sources to regulatory submissions





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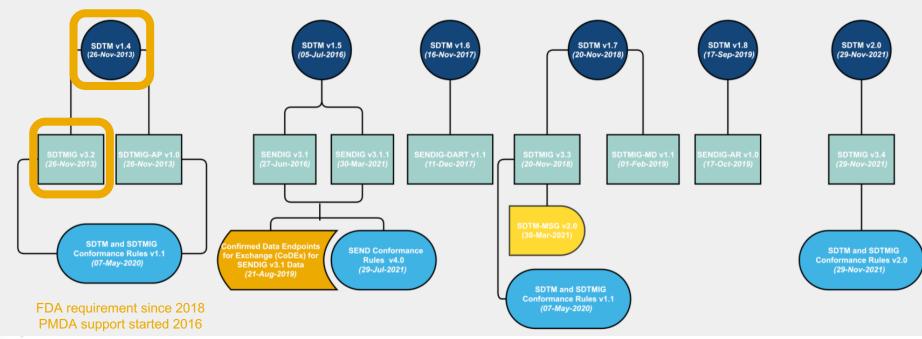
Versioning

Clinical Data Standards versioning



CDISC versions used in Janssen Standards

Janssen Standards state until March 2023





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Health Authority Requirements

CDISC <info@cdisc.org> To • Hectors, Kathleen [JRDBE]

:disc.org > :hleen [JRDBE]



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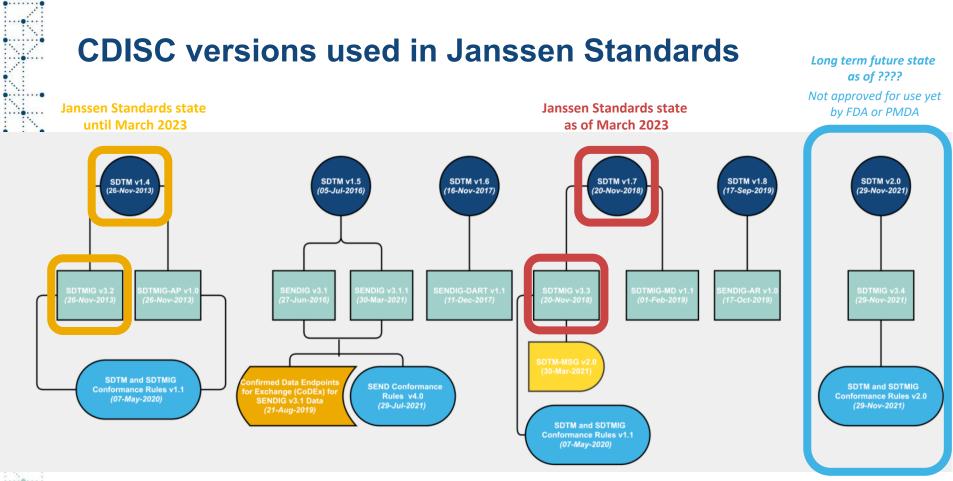
FDA Requirement for Studies Starting On or

After March 15 2023

The FDA Data Standards Catalog states certain CDISC Standards will be required for submissions of studies that start on or after March 15 2023. The CDISC Library DIFF Report Generation Tool helps users assess changes when up-versioning standards. SDTM v1.7 & SDTMIG v3.3 to be used for FDA submissions for trials with FPI on or after 15 March 2023

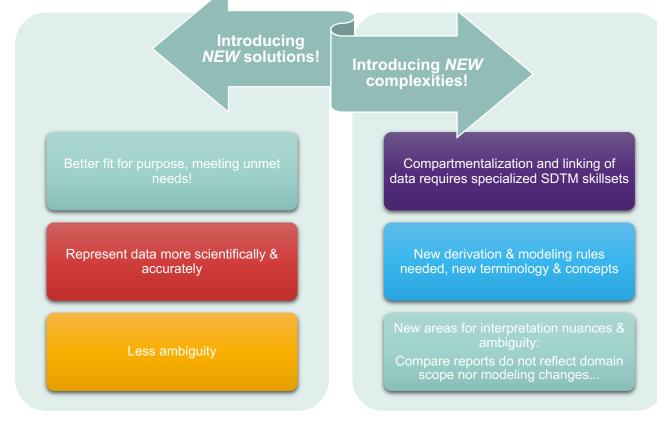
Dilemma Upgrading... To what version?





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Sponsor perspective

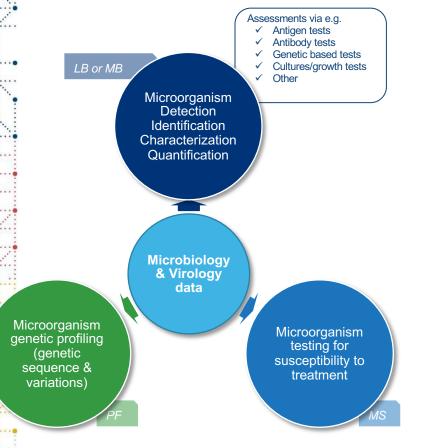




Use Case

Changed scope of LB, MB and IS domains over different SDTM(IG) versions

Janssen Standards v3.2



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Changed scope of LB and MB domains in SDTMIG 3.3

CDSIC SDTMIG 3.2 (Nov 2013)

Microbiology Specimen (MB)

MB - Description/Overview for Microbiology Specimen Domain Model

Microbiology specimen findings, including gram stain results, and organisms found.

Laboratory Test Results (LB)

LB - Description/Overview for Laboratory Test Results Domain Model

Laboratory test findings including, but is not limited to hematology, clinical chemistry and urinalysis data. This domain does not include microbiology or pharmacokinetic data, which are stored in separate domains.

Code	Codelist Code	Codelist Extensible (Yes/No) -	Codelist Name	CDISC Submission Value	CDISC Synonym(s)	CDISC Definition
C103403	C67154		Laboratory Test Name	Helicobacter pylori IgG Antibody	Helicobacter pylori IgG Antibody	A measurement of the Helicobacter pylori IgG antibody in a biological specimen.
C92534	C67154		Laboratory Test Name	Hepatitis A Virus Antibody	Hepatitis A Virus Antibody	A measurement of the hepatitis A virus antibody in a biological specimen.
C92271	C67154		Laboratory Test Name	Hepatitis A Virus IgM Antibody	Hepatitis A Virus IgM Antibody	A measurement of hepatitis A virus IgM antibody in a biological specimen.
C125944	C67154		Laboratory Test Name	Hepatitis B Virus Antibody	Hepatitis B Virus Antibody	A measurement of an unspecified hepatitis B antibody in a biological specimen.
C96660	C67154		Laboratory Test Name	Hepatitis B Virus Core Antibody	Hepatitis B Virus Core Antibody	A measurement of the hepatitis B virus core antibody in a biological specimen.
C119280	C67154		Laboratory Test Name	Hepatitis B Virus Core IgG Antibody	Hepatitis B Virus Core IgG Antibody	A measurement of the hepatitis B virus core IgG antibody in a biological specimen.
C96661	C67154		Laboratory Test Name	Hepatitis B Virus Core IgM Antibody	Hepatitis B Virus Core IgM Antibody	A measurement of the hepatitis B virus core IgM antibody in a biological specimen.
C96662	C67154		Laboratory Test Name	Hepatitis B Virus e Antibody	Hepatitis B Virus e Antibody	A measurement of the hepatitis B e antibody in a biological specimen.
C74711	C67154		Laboratory Test Name	Hepatitis B Virus Surface Antibody	Anti-HBs; HBsAb; Hepatitis B Virus Surface Antibody	A measurement of the hepatitis B virus surface antibody in a biological specimen.
C92535	C67154		Laboratory Test Name	Hepatitis C Virus Antibody	Hepatitis C Virus Antibody	A measurement of the hepatitis C virus antibody in a biological specimen.



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CDISC Controlled Terminology (April 2019 release). Screenshot only shows random selection of tests, there are also microbiology related tests other than AB or AG

Boundaries of LB vs MB were not clear for end-users and have been causing a lot of confusion.

Changed scope of LB and MB domains in SDTMIG 3.3

CDSIC SDTMIG 3.2

Microbiology Specimen (MB)

MB - Description/Overview for Microbiology Specimen Domain Model

Microbiology specimen findings, including gram stain results, and organisms found.

Laboratory Test Results (LB)

LB - Description/Overview for Laboratory Test Results Domain Model

Laboratory test findings including, but is not limited to hematology, clinical chemistry and urinalysis data. This domain does not include microbiology or pharmacokinetic data, which are stored in separate domains.

CDISC SDTMIG 3.3 (+ SDTMIG 3.4)

6.3.7 Microbiology Domains

The microbiology domains consist of Microbiology Specimen (MB) and Microbiology Susceptibility (MS). The MB domain is used for the detection, identification, quantification, and other characterizations of microorganisms in subject samples, except for drug susceptibility testing. MS is used for representing data from drug susceptibility testing on the organisms identified in MB. All non-host infectious organisms, including bacteria, viruses, fungi, and parasites are appropriate for the microbiology domains.

6.3.6 Laboratory Test Results

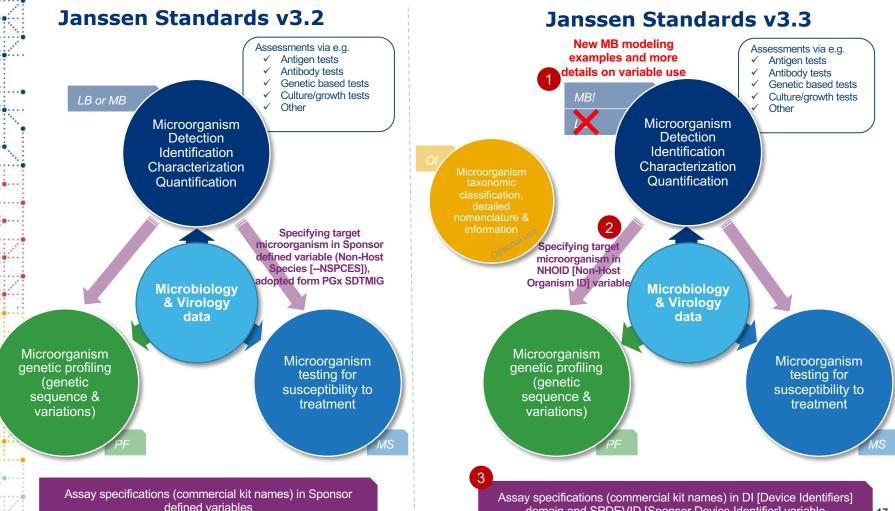
LB - Description/Overview

A findings domain that contains laboratory test data such as hematology, clinical chemistry and urinalysis. This domain does not include microbiology or pharmacokinetic data, which are stored in separate domains.

Scope of domains finetuned in SDTMIG v3.3 (Nov 2018).

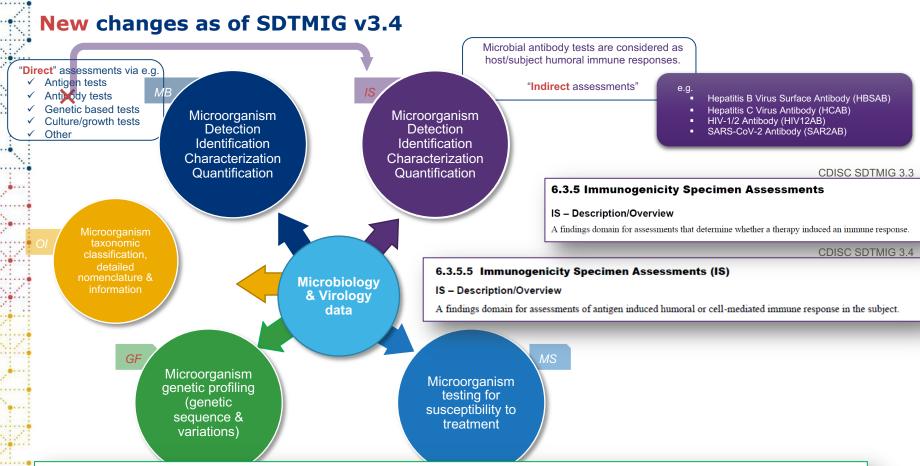
Implementation in Controlled Terminology occured in September 2019.





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domain and SPDEVID [Sponsor Device Identifier] variable

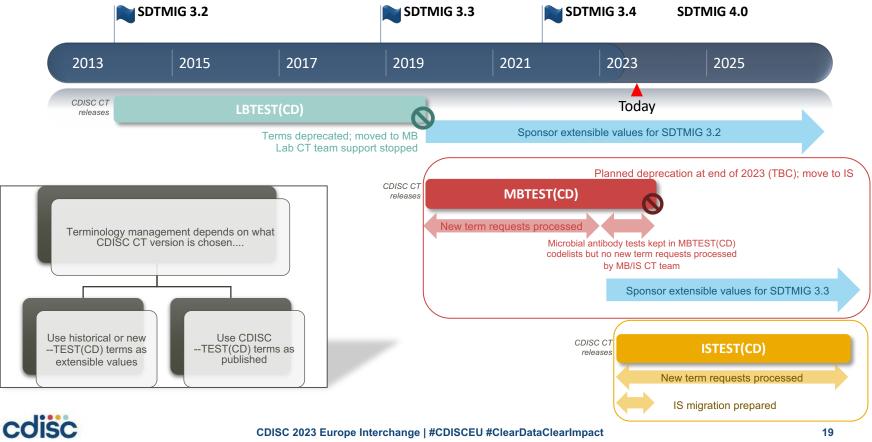


6.3.5.4 Genomics Findings (GF)

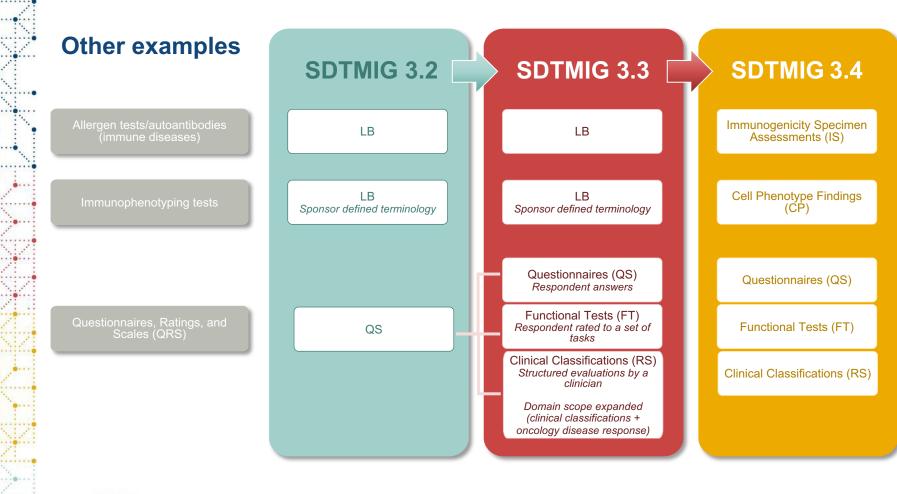
GF - Description/Overview

A findings domain that contains data related to the structure, function, evolution, mapping, and editing of subject and non-host organism genomic material of interest. This domain includes but is not limited to assessments and results for genetic variation and transcription, and summary measures derived from these assessments. The GF domain is used for findings from characteristics assessed from nucleic acids and may include subsequent inferences and/or predictions about related proteins/amino acids.

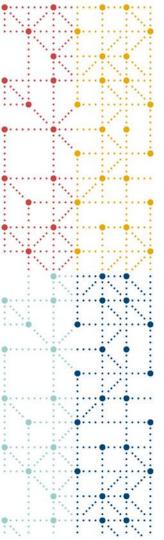
Anti-Microbial Antibody Test terminology



Source: CDISC CONTROLLED TERMINOLOGY RULES: Microbiology (MB) Test Code/Name, Microbiology Susceptibility (MS) Test Code/Name; 16 December 2022, www.CDISC.org



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Conclusions

Strategy of managing Standards determines impact of upgrading

Double-edged sword

High return on investment

but High impact of

upversioning:

Pain, change management & training and costs _ess return on investment

but

Less impact of upgrading

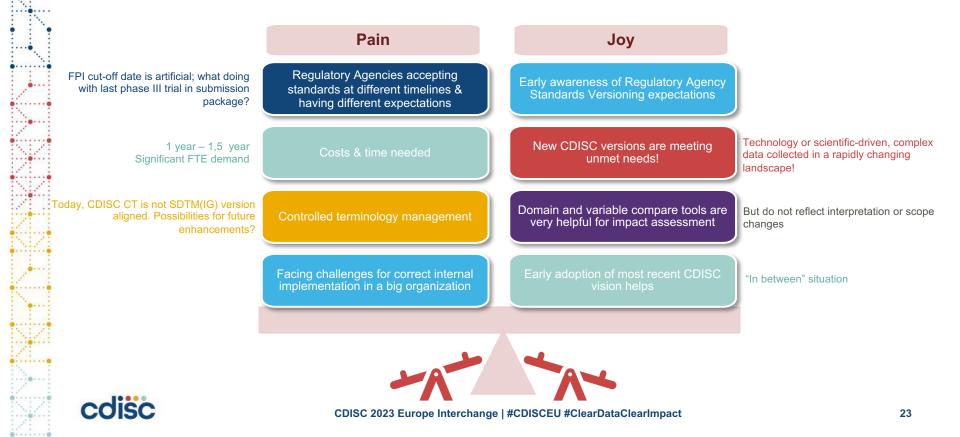
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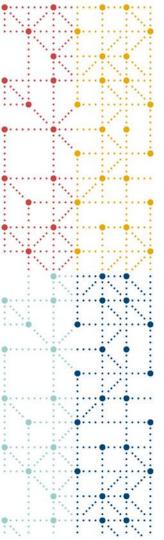
Less

connected

standards

Impact & consequences of SDTM(IG) version upgrade for a Sponsor





Thank You!



Poll 1. If you were a sponsor, to what version would you upgrade? • B: SDTM v2.0 & SDTMIG v3.4 C: No preference/do not know SDTM v1.8 SDTM v1.6 SDTM v2.0 SDTM v1.4 SDTM v1.5 SDTM v1.7 (26-Nov-2013) (05-Jul-2016) (16-Nov-2017) (20-Nov-2018) (17-Sep-2019) (29-Nov-2021) **SDTM and SDTMIG** SEND Conformance SDTM and SDTMIG Conformance Rules v1.1 Rules v4.0 Conformance Rules v2.0 (07-May-2020) (29-Jul-2021) (29-Nov-2021) SDTM and SDTMIG Conformance Rules v1.1 (07-May-2020) FDA requirement to use for trials with FPI as of March 2023; PMDA accepting as of 01 April 2023 cdisc

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Strategic dilemma *Upgrading... What CDISC Controlled Terminology (CT) version to use?*

Poll 2. If you were a sponsor, what CDISC CT version would you use?

A: Stick with one single version

B: Continuously upgrade to latest version available (< 1 year)

C: No preference/do not know



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