

%xucomm - Create SDTM Comments (CO) Domain Records

Overview

The %xucomm macro creates SDTM Comments (CO) domain records from source datasets. It processes comments from any SDTM domain and creates standardized CO records following CDISC SDTM standards, with proper handling of multiple comment lines.

Version Information

- **Version:** 1.0
- **Last Updated:** 15JUL2022
- **Author(s):** Atorus Research

Dependencies

- SAS version: SAS 9.4 V9
- Requires the following macros:
 - xtmeta.sas - For CO domain metadata
 - xtorder.sas - For sorting specifications
 - xusplit.sas - For splitting comment text
- Global macro variable &domain must be defined before macro call

Parameters

Parameter	Required	Default	Description
inds	Yes	-	Name of the input dataset containing comments
invar	Yes	-	Name of the input variable containing comment text
idvar	No	domainseq	Name of the ID variable (ignored for DM domain)
qc	No	N	Set to Y if macro is used for QC purposes
debug	No	N	Set to Y to retain temporary datasets

Return Values/Output

Creates a dataset named:

- sdtm.domain_comm if qc=N
- qcdomain_comm if qc=Y

Output dataset contains standard CO domain variables:

- STUDYID, RDOMAIN, USUBJID
- IDVAR, IDVARVAL (when applicable)

- COSEQ
- COVAL1-COVALn (as needed for long comments)

Processing Details

1. Input Validation:

- Verifies required parameters
- Checks for &domain macro variable
- Validates IDVAR handling for DM domain

2. Comment Processing:

- Splits comments into multiple lines if needed
- Creates appropriate number of COVALx variables
- Handles both character and numeric ID variables

3. Sequence Generation:

- Creates COSEQ within USUBJID
- Ensures proper sorting of output records
- Removes duplicates

Examples

Basic Usage for DM Domain

```
%let domain = DM;  
%xucomm(dm, dmcomm);
```

Usage with ID Variable

```
%let domain = LB;  
%xucomm(qclb, lbcomm, idvar=lbseq, qc=Y);
```

Debug Mode

```
%let domain = AE;  
%xucomm(  
    inds=ae,  
    invar=aecomm,  
    idvar=aeseq,  
    debug=Y  
);
```

Common Issues and Solutions

Issue	Solution
Missing domain variable	Define %let domain=XX before macro call
Duplicate comments	Check input data for duplicates
Missing metadata	Ensure xtmeta macro has CO domain specifications

Notes and Limitations

- Requires pre-defined &domain macro variable
- DM domain has special handling (no IDVAR/IDVARVAL)
- Comments are automatically split if they exceed COVALx length
- Warns if more COVALx variables are needed than specified in metadata
- QC mode creates separate output dataset with 'qc' prefix

See Also

- `%xtmeta`: For metadata handling
- `%xtorder`: For sorting specifications
- `%xusplit`: For text splitting
- `%xumrgcs`: For merging comments with parent domains

Change Log

Version	Date	Author	Changes
1.0	15JUL2022	Atorus Research	Initial version