ASME Y14.35-2025
[Revision of ASME Y14.35-2014 (R2019)]

Revision of Engineering Product Definition Datasets and Associated Documents

Engineering Product Definition and Related Documentation Practices

AN AMERICAN NATIONAL STANDARD

The American Society of Mechanical Engineers

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The American Society of Mechanical Engineers
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FOREWORD

Subcommittee 35, Revision of Engineering Drawings, was formed in November 1981 as a subcommittee of ASME Standards Committee Y14, Engineering Drawings and Related Documentation Practices. Since then, the scope of this subcommittee has grown to include revisioning of all engineering product definition, not just drawings. To better reflect that scope, the name of the subcommittee has been updated to Subcommittee 35, Revisions to Product Definition Datasets. The subcommittee is charged with establishing methods and requirements for identifying and recording revisions to original product definition datasets, individual objects within those datasets, and associated documentation for both manually prepared documents and digital data files.

Changes contained in this revision are intended to improve standardization and to harmonize practices and methodologies between industry and government. The following is a summary of the significant changes made in ASME Y14.35-2025:

(a) Updated title and text of the Standard to emphasize the more inclusive term "product definition dataset" or just "dataset" over previous terms "drawing" and "digital data file."

(b) Added the more generic concept of revision history for recording changes to product definition data. A Revision History block on a drawing is one example of a revision history.

(c) Updated the revision identification to be a revision identifier that can be alpha, numeric, or a combination of the two.

(d) Updated requirements for revision identifiers, so revision identifiers may be up to three characters long and placeholders may be used for revision identifiers to have all three characters displayed from the initial release.

(e) Removed the option of leaving the revision identifier blank for initial releases.

(f) Clarified that the database revisioning scheme within a product data management (PDM) system does not have to match the revisioning scheme used on the actual product definition data.

(g) Added requirements for revision history in an annotated model and provided examples of what that could look like.

(h) Clarified that when multiple transfers of design activity have occurred, only the latest activity identification needs to be displayed.

Subcommittee 35 has worked together with Subcommittees 41 and 100 to clarify the definitions of "product definition dataset" and "drawing," as there was significant confusion about how these two terms related to each other. The three subcommittees agreed that "product definition dataset" would be the overarching term and "drawing" a subset of the dataset. The definition of "product definition dataset" used in ASME Y14.35-2025 reflects the updated version of the definition used in the upcoming revision of ASME Y14.41.

The successful revision of this Standard is attributed to the subcommittee members and their respective companies, and the departments and agencies of the United States Government.

This revision was approved as an American National Standard on June 10, 2025.

ASME Y14 COMMITTEE
Engineering Product Definition and Related Documentation Practices

(The following is the roster of the committee at the time of approval of this Standard)

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General. ASME codes and standards are developed and maintained by committees with the intent to represent the consensus of concerned interests. Users of ASME codes and standards may correspond with the committees to propose revisions or cases, report errata, or request interpretations. Correspondence for this Standard should be sent to the staff secretary noted on the committee's web page, accessible at https://go.asme.org/Y14committee.

Revisions and Errata. The committee processes revisions to this Standard on a periodic basis to incorporate changes that appear necessary or desirable as demonstrated by the experience gained from the application of the Standard. Approved revisions will be published in the next edition of the Standard.

In addition, the committee may post errata on the committee web page. Errata become effective on the date posted. Users can register on the committee web page to receive email notifications of posted errata.

This Standard is always open for comment, and the committee welcomes proposals for revisions. Such proposals should be as specific as possible, citing the paragraph number, the proposed wording, and a detailed description of the reasons for the proposal, including any pertinent background information and supporting documentation.

Cases

(a) The most common applications for cases are

(1) to permit early implementation of a revision based on an urgent need

(2) to provide alternative requirements

(3) to allow users to gain experience with alternative or potential additional requirements prior to incorporation directly into the Standard

(4) to permit the use of a new material or process

(b) Users are cautioned that not all jurisdictions or owners automatically accept cases. Cases are not to be considered as approving, recommending, certifying, or endorsing any proprietary or specific design, or as limiting in any way the freedom of manufacturers, constructors, or owners to choose any method of design or any form of construction that conforms to the Standard.

(c) A proposed case shall be written as a question and reply in the same format as existing cases. The proposal shall also include the following information:

(1) a statement of need and background information

(2) the urgency of the case (e.g., the case concerns a project that is underway or imminent)

(3) the Standard and the paragraph, figure, or table number

(4) the editions of the Standard to which the proposed case applies

(d) A case is effective for use when the public review process has been completed and it is approved by the cognizant supervisory board. Approved cases are posted on the committee web page.

Interpretations. The committee does not issue interpretations for this Standard.

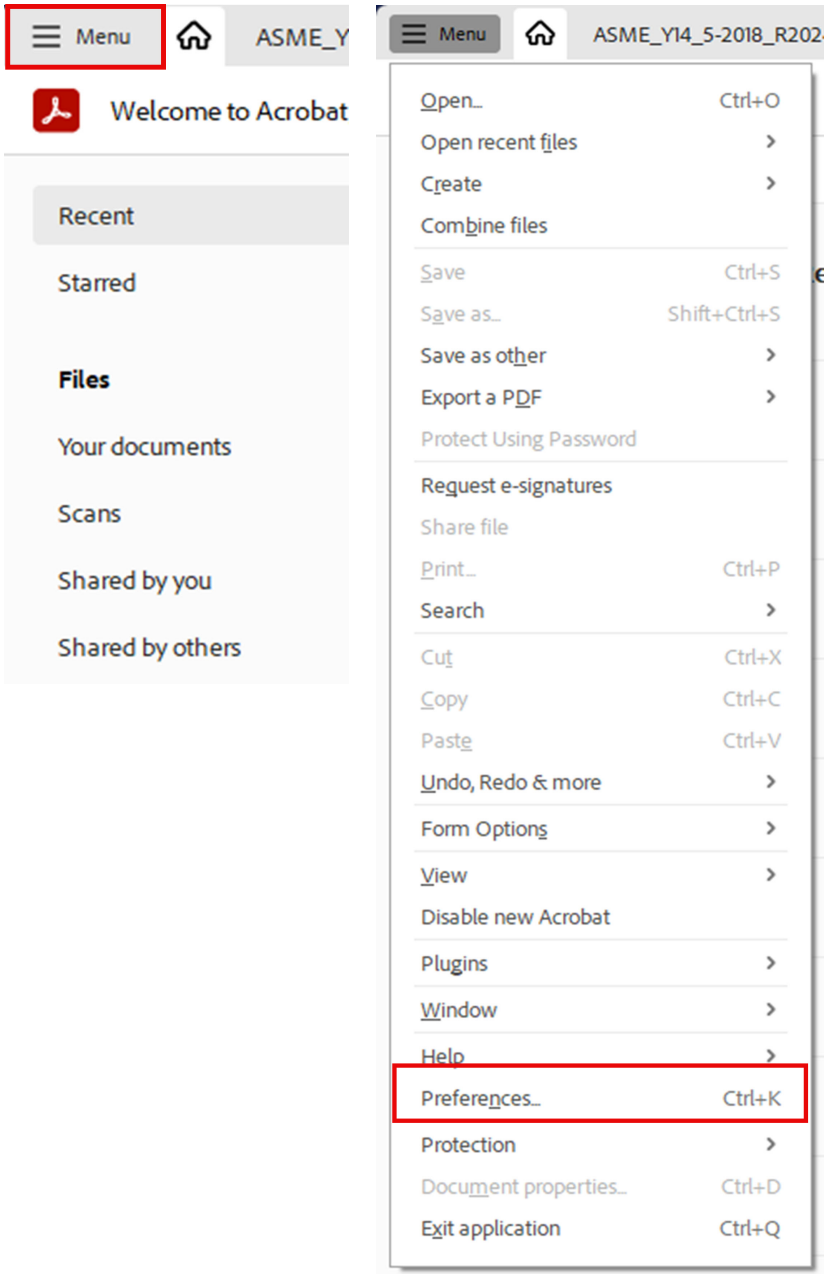
Committee Meetings. The Y14 Standards Committee regularly holds meetings that are open to the public. Persons wishing to attend any meeting should contact the secretary of the committee. Information on future committee meetings can be found on the committee web page at https://go.asme.org/Y14committee.

INSTRUCTIONS FOR VIEWING 3D PDFS IN ADOBE ACROBAT

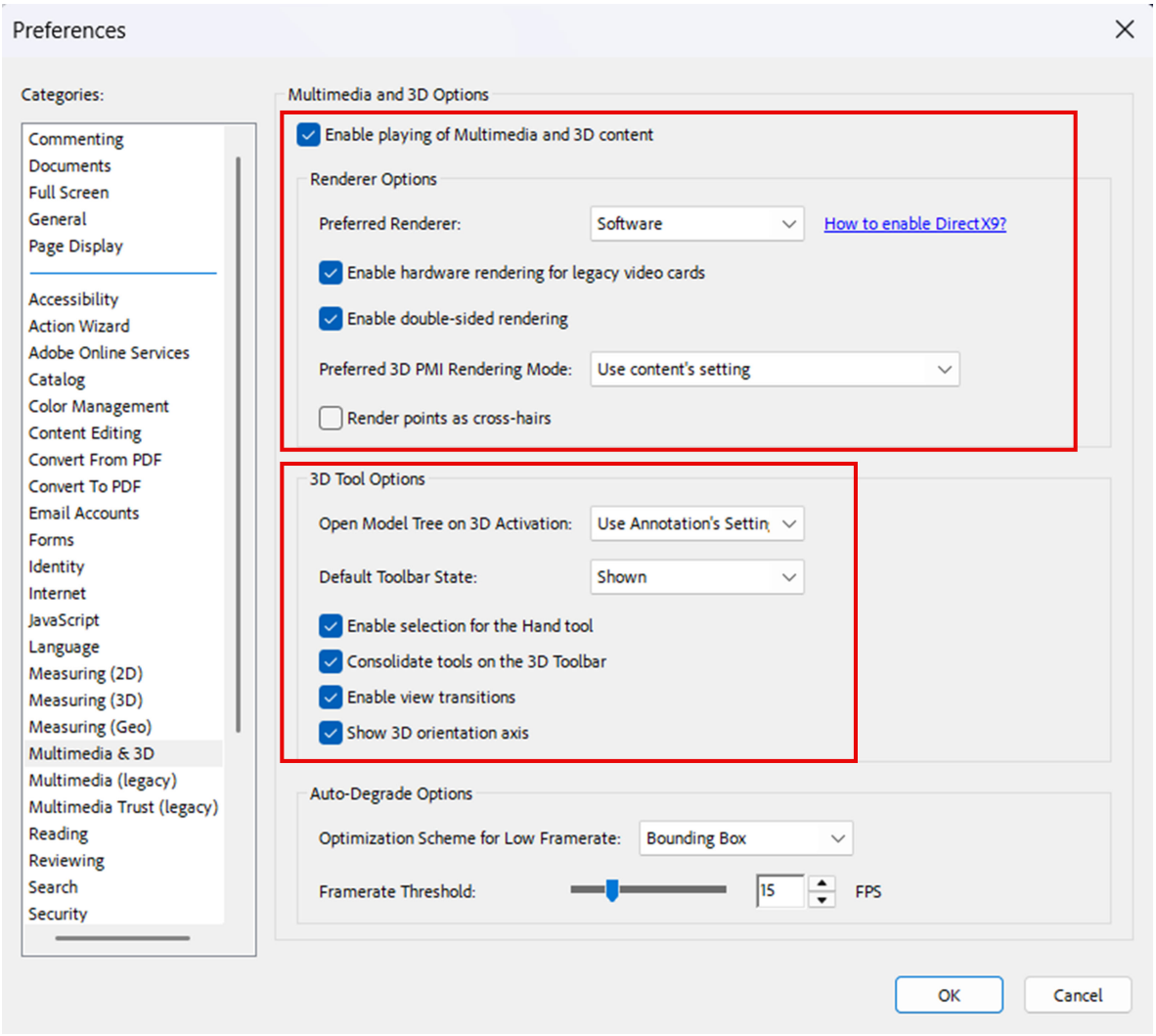
This Standard includes a 3D PDF figure. 3D PDF figures are interactive. They can be opened and queried for features and annotations. The geometry included in the 3D PDF in this Standard is not intended for part fabrication.

The following instructions describe the Adobe Acrobat settings that enable 3D content. To view the 3D figure or figures in this Standard, update the Adobe Acrobat settings as described in Steps 1 through 4. Then exit Adobe Acrobat and reopen the Standard to view the interactive content.

Step 1. Open Adobe Acrobat, and select "Menu" from the upper left corner. From the Menu dropdown, select "Preferences."



Step 2. Select the "Multimedia & 3D" options shown in the following screenshot:

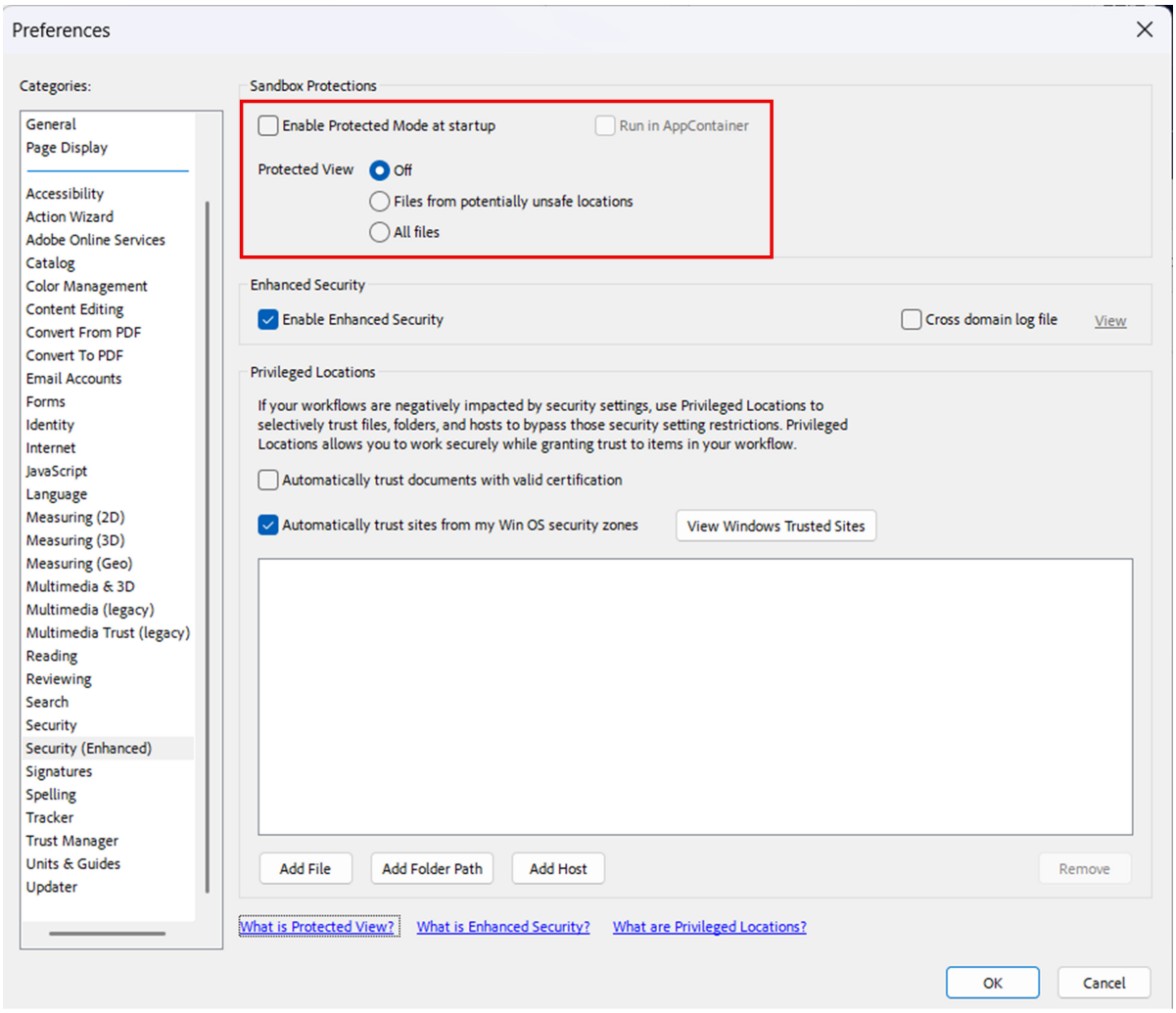


NOTES:

(1) Click the “Preferred Renderer” software dropdown list in the first red box, and select DirectX 9. If DirectX 9 is not installed on your computer, click the “How to enable DirectX 9” link and follow the instructions to install the software. Some computers use OpenGL instead of DirectX 9. DirectX 9 and OpenGL work for the visibility of the associativity, but other options might not yield the associativity as desired.

(2) The settings in the second red box load the toolbar and the presentation state window when the file is opened.

Step 3. Select the "Security (Enhanced)" options shown in the following screenshot:



NOTE: The selections in the red box enable the user to open 3D PDFs without encountering a banner questioning whether the opened document can be trusted.

Step 4. After configuring the Adobe Acrobat settings per Steps 1 through 3, select OK. This will save the settings. Close the Adobe Acrobat application. Then reopen this Standard and open the 3D PDF figure.

REVISION OF ENGINEERING PRODUCT DEFINITION DATASETS AND ASSOCIATED DOCUMENTS

1 GENERAL

1.1 Scope

This Standard defines the practices for revising product definition datasets and documents or data files, or both, within those datasets. This Standard also establishes methods for identifying and recording revisions. The revision practices of this Standard apply to any form of original document or data file. It is essential that this Standard be used in close conjunction with ASME Y14.24, ASME Y14.34, ASME Y14.41, and ASME Y14.100.

1.2 ASME Y14 Series Conventions

The conventions in paras. 1.2.1 through 1.2.12 are used in this and other ASME Y14 standards.

1.2.1 Mandatory, Recommended, Guidance, and Optional Words

(a) The word "shall" establishes a requirement.
(b) The word "will" establishes a declaration of purpose on the part of the design activity.
(c) The word "should" establishes a recommended practice.
(d) The word "may" establishes an allowed practice.
(e) The words "typical," "example," and "for reference;" and the Latin abbreviation "e.g." indicate suggestions given for guidance only.
(f) The word "or" indicates that there are two or more options for complying with a list of options. When the word "or" is used without a qualifying word such as "all," "both," or "any" in a list, it is exclusive, meaning that only one option from the list is acceptable at a time, e.g., "Select option A or option B." When the word "or" is used with a qualifying word such as "all," "both," or "any" in a list, it is inclusive, meaning that multiple options from the list are acceptable at a time, e.g., "Select option A, option B, or both."
(g) The phrase "unless otherwise specified" or the abbreviation "UOS" indicates a default requirement if an exception is provided in this Standard.

1.2.2 Cross-Reference of Standards. Cross-reference of standards in text with or without a date following the standard designator shall be interpreted as follows:
(a) Reference to other ASME Y14 standards in the text without a date following the standard designator indicates that the edition of the standard identified in the References section (section 2) shall be used to meet the requirement.
(b) Reference to other ASME Y14 standards in the text with a date following the standard designator indicates that only that edition of the standard shall be used to meet the requirement.

1.2.3 Invocation of Referenced Standards. The following examples define the invocation of a standard when specified in section 2 and referenced in the text of this Standard:
(a) When a referenced standard is cited in the text with no limitations to a specific subject or paragraphs of the standard, the entire standard is invoked. For example, "Dimensioning and tolerancing shall be in accordance with ASME Y14.5" is invoking the complete standard because the subject of the standard is dimensioning and tolerancing and no specific subject or paragraphs within the standard are invoked.
(b) When a referenced standard is cited in the text with limitations to a specific subject or paragraphs of the standard, only the paragraphs on that subject are invoked. For example, "Assign part or identifying numbers in accordance with ASME Y14.100" is invoking only the paragraphs on part or identifying numbers because the subject of the standard is engineering drawing practices and part or identifying numbers is a specific subject within the standard.
(c) When a referenced standard is cited in the text without an invoking statement such as "in accordance with," the standard is invoked for guidance only. For example, "For gaging principles, see ASME Y14.43" is only for guidance and no portion of the standard is invoked.