



CATIA-CADAM Interface

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Preface

The CATIA-CADAM Interface User's Guide describes how to translate drafting documents from CADAM Drafting to CATIA Version 5 and from CATIA Version 5 to CADAM Drafting. It explains how the product should be used and provides specific instructions for:

- [Setting Options for the CATIA-CADAM Interface product](#)
- [Opening a CADAM Drafting model](#)
- [Saving a V5 Drafting document as a CADAM Drafting model](#)

It contains a detailed mapping table that shows how CADAM Drafting elements are interpreted in CATIA and how CATIA Drafting elements are interpreted in CADAM. In addition, guidelines are offered for preparing a CADAM Drafting model for translation.

Getting Started

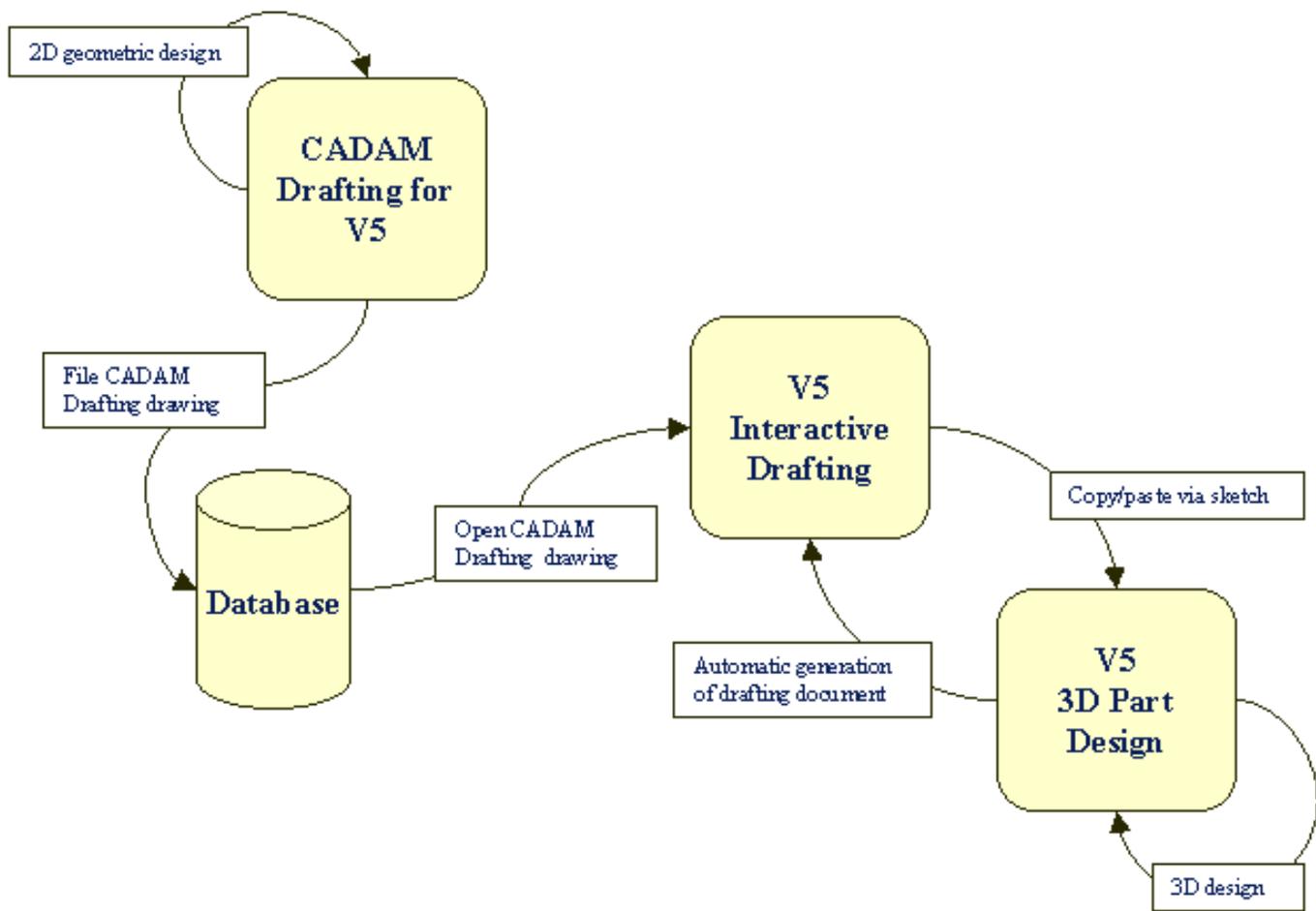
| Theme | Purpose |
|--|--|
| CATIA-CADAM Interface Methodology | Describes how the product is intended to be used. |
| CADAM Drafting to V5 Interactive Drafting -- Element Mapping Table | Provides a detailed list of CADAM Drafting elements and the CATIA elements to which they correspond after translation. |
| V5 Interactive Drafting to CADAM Drafting -- Element Mapping Table | Provides a detailed list of CATIA Drafting elements and the CADAM elements to which they correspond after translation. |

CATIA-CADAM Interface Methodology

The CATIA-CADAM Interface product allows you to integrate your CADAM Drafting environment with other V5 CATIA product offerings. Depending on your intended usage, there are two basic design methodologies that the CATIA-CADAM Interface product supports for integrating your V5 CATIA and CADAM drafting environments. They are as follows:

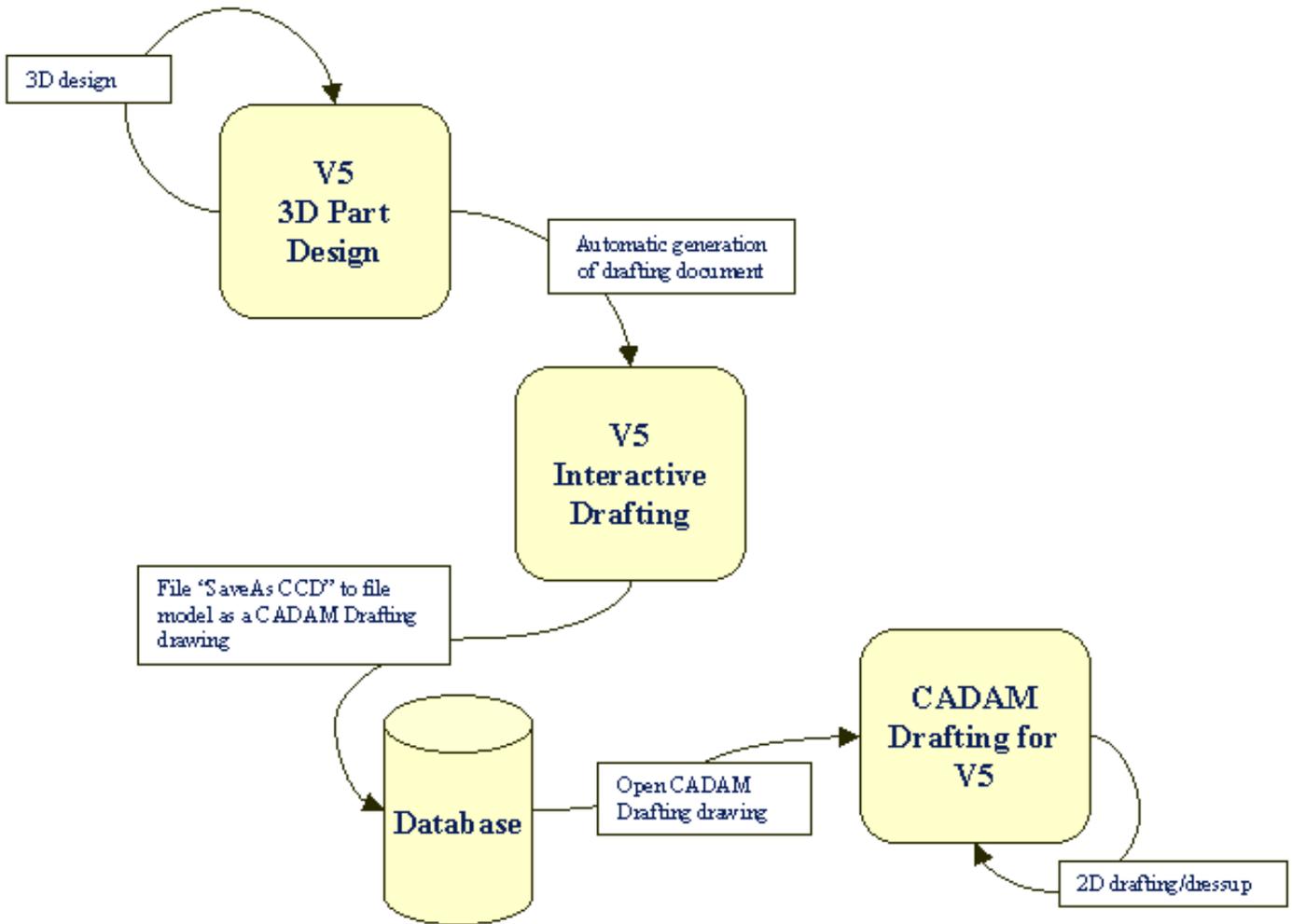
CADAM Preliminary 2D Design to V5 CATIA 3D Design

This integration provides the user with the ability to develop your initial product design with the CADAM Drafting product and then accomplish your 3D design using the suite of V5 CATIA mechanical design products. The following diagram shows the basic flow for integration of the CADAM Drafting and CATIA V5 products using this methodology.



V5 CATIA 3D Design with CADAM Drafting and Dressup

This integration provides the user with the ability to make use of the full capabilities of the V5 CATIA 3D mechanical design and modeling tools and the full drafting and dressup tools provided by the CADAM drafting product. The following diagram shows the basic flow for integration of the CADAM Drafting and CATIA V5 products using this methodology.



CADAM Drafting to V5 Interactive Drafting -- Element Mapping



This section describes how CADAM Drafting elements are interpreted in CATIA.

The CATIA-CADAM Interface product provides the capability of opening a CADAM Drafting model directly in the V5 Interactive Drafting environment. As a CADAM Drafting model is opened, the elements in the model are converted from CADAM Drafting format to V5 Interactive Drafting format. The conversion handles all 2D geometric and annotation elements supported in a CADAM Drafting model.

Currently in V5, not all elements and element properties supported in CADAM Drafting are supported in the Interactive Drafting product. In most of these cases, the element or element property is transferred to the closest compatible element or property. In some cases, complex elements are exploded into primitive elements during the transfer. As additional elements and element properties are incorporated into the Interactive Drafting product in future releases, the CATIA-CADAM Interface product will be updated to provide a more accurate mapping.

The following tables provide detailed information for the specific mapping between CADAM Drafting and V5 Interactive Drafting. The tables are organized by element type:

[Structural Model Elements and Model Properties](#)

[Geometric Elements and Geometric Properties](#)

[Non-Text based Annotations](#)

[Text based Annotations and Text Properties](#)

[Dimensions and Dimension Properties](#)



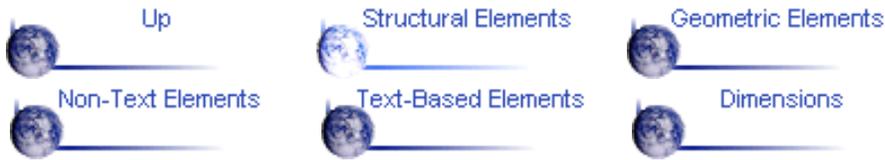
Structural Model Elements and Model Properties

This table shows how CADAM Drafting structural model elements and model properties are interpreted in CATIA. Structural model elements are the main grouping or organizational elements used to define a model. Examples of structural model elements are details and views.

Note: Not transferred (*) designates that the element or property is not supported in the current release of the V5 Interactive Drafting product.

| CADAM Drafting Element/Property | Interactive Drafting Element/Property | Comments |
|------------------------------------|---------------------------------------|---|
| <i>Structural Model Elements:</i> | | |
| Details | Not transferred | When dittos of details are encountered, they are exploded to geometry and the geometry is transferred. |
| Layers | Layers | |
| Overlay | Not transferred (*) | |
| Views | Views | |
| <i>Related Geometric Elements:</i> | | |
| 2D axis - main axis | Axis | |
| 2D axis - auxiliary axis | Not transferred (*) | |
| Grid | Not transferred | The Interactive Drafting product does support the concept of a grid, but the grid information is not stored as an element within a drafting document. Rather, it is an attribute of the users interactive V5 environment. |
| <i>Model Properties:</i> | | |
| | Drafting standard (ANSI, ISO, JIS) | The Interactive Drafting product explicitly associates a drafting standard (ANSI, ISO, JIS) to a drawing. This standard drives the display and behavior of some drafting elements (e.g., dimensions). The CADAM Drafting product associates a drafting standard with elements in a model, but does not associate a standard with the model. Therefore as a CADAM Drafting model is transferred, the elements within the model will be used to determine the standard. Specifically, the dimensions in the model are queried to determine the standard of the drawing. For example, if the CADAM Drafting model has ANSI standard dimensions, the Interactive Drafting drawing will be set to ANSI standard. In general practice, all elements in a CADAM Drafting model are of the same standard. If a model is encountered where elements from multiple standards exist, the standard of the first encountered dimension will be used. If no dimensions exist, the standard will be set based on the units of the CADAM Drafting model. If the units are metric, the standard will be set to ISO. Otherwise, the standard will be set to ANSI. |

| | | |
|-----------------------|---------------------|--|
| | Sheet size | The Interactive Drafting product defines an explicit sheet size with all drawings. The CADAM Drafting product does not associate a fixed sheet size with a model. When transferring a CADAM Drafting model to Interactive Drafting, the sheet size is determined by defining a bounding box around all of the elements within the CADAM Drafting model. The sheet size of the Interactive Drafting drawing is then set to the smallest available sheet size that contains the calculated bounding box. |
| Model text | Not transferred (*) | |
| Plot data information | Not transferred | The methodology to define prints/plots with Interactive Drafting is different than CADAM Drafting and therefore this data is not applicable. |
| Units per inch | Not transferred | The Interactive Drawing product uses the same storage units for all drawings. The user is able to establish "working" units while interacting with the model. All interactions between the system and user will be done in "working" units. |
| Window sets | Not transferred (*) | |



Geometric Elements and Geometric Properties

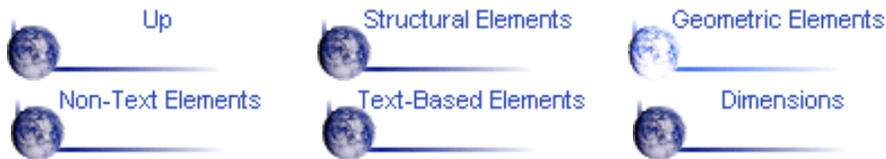
The CADAM Drafting product and the Interactive Drafting product support the same basic set of geometry. All basic geometric elements are transferred with mathematical accuracy between the two systems. The geometric properties (e.g., line styles) are not identically defined between the two products with the current releases. Therefore, minor differences in visual appearance may occur between the two systems.

The following table outlines the specific mappings for geometric elements and geometric properties:

Note: Not transferred (*) designates that the element or property is not supported in the current release of the V5 Interactive Drafting product.

| CADAM Drafting Element/Property | Interactive Drafting Element/Property | Comments |
|---------------------------------------|---|--|
| <i>Basic geometry:</i> | | |
| Circle | Circle | |
| Ellipse | Ellipse | |
| Line | Line | |
| Linear spline | Polyline | |
| Multiline | Polyline | |
| Point | Point | |
| Point, lever | Not transferred (*) | This data is only required for managing placement of dittos which is not supported in the current release of Interactive Drafting. |
| Point, XYZ | Point | The XYZ point is transferred as a 2D point. So, the Z coordinate information is not transferred. |
| Spline | Spline | |
| Spline, offset spline | Spline | The concept of an offset spline does not exist in the interactive drafting product; therefore, the offset spline is transferred as a spline. Given this, the geometry is transferred, but the association between the offset spline and the parent spline is not transferred. Also, in certain cases where the curvature or the offset is large, the mathematically definition of the offset is not exactly reproduced. Therefore, a offset spline may be visually different after the transfer. |
| <i>Geometric reference elements:</i> | | |
| Dittos | Exploded to geometry | Ditto geometry is exploded to geometric primitives as part of the transfer. |
| Reference entities | Not transferred (*) | |
| Symbol occurrence | Exploded to geometry (manual step required) | Before opening the CADAM Drafting model with the Interactive Drafting product, the user must first use the "Symbol-Convert" option of CADAM Drafting. This will allow the transfer of the exploded geometry to Interactive Drafting. |
| <i>Standard geometric properties:</i> | | |

| | | |
|--|------------------------------|--|
| Color | Color (matching RGB values) | |
| Hidden line removal - visualization data | Not transferred (*) | |
| Line styles | Closest available line style | The current Interactive Drafting product only supports a subset of the line styles supported by CADAM Drafting. So, CADAM Drafting line styles are transferred to the closest available Interactive Drafting line style. |
| Line widths, pen, line weight | Closest available line width | The current Interactive Drafting product only supports a subset of the line widths supported by CADAM Drafting. In addition, the concept of pen and line weight is not supported. So, CADAM Drafting line widths are transferred to the closest available Interactive Drafting line width. Pen and line weight information is not transferred. |
| <i>Element properties:</i> | | |
| Flange angle data | Not transferred | This information is not supported in the Interactive Drafting product. As the Interactive Drafting product works in conjunction with V5 3D design, this information is not applicable for Interactive Drafting. |
| User attributes | Not transferred (*) | |
| VDS information | Not transferred | |

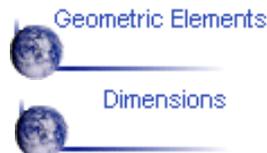
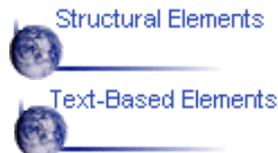


Non-Text Based Annotations

Non-Text based annotations are defined as annotation related elements that do not have a text component. The following table outlines the specific mappings for non-text based annotations:

Note: Not transferred (*) designates that the element or property is not supported in the current release of the V5 Interactive Drafting product.

| CADAM Drafting Element/Property | Interactive Drafting Element/Property | Comments |
|-----------------------------------|---|--|
| <i>Geometric annotations:</i> | | |
| Arrow without text | Arrow | The CADAM arrow supports a series of end conditions. Not all of these end conditions are supported by the current version of the Interactive Drafting product. Therefore, end conditions will be transferred to the best matching end condition. |
| Breakout | Polyline | |
| Dot | Circle or areafill | If the CADAM element is not filled, the element is transferred as a circle. If the CADAM element is filled, it is transferred as an areafill. |
| Raster | Not transferred (*) | |
| Rectangle | Polyline or areafill | If the CADAM element is not filled, the element is transferred as a polyline. If the CADAM element is filled, it is transferred as an areafill. |
| Section line | Polyline | |
| Triangle | Polyline or areafill | If the CADAM element is not filled, the element is transferred as a polyline. If the CADAM element is filled, it is transferred as an areafill. |
| <i>Areafill and pattern data:</i> | | |
| Areafill boundary | Polyline | |
| Areafill background color | Areafill color | |
| Areafill standard patterns | Areafill pattern | CADAM Drafting areafill patterns are based on repeating lines or repeating cells. The current Interactive Drafting product supports patterns based on repeating lines only. The CADAM standard patterns based on repeating lines (hatch, grid, steel, dashes, copper, rubber, aluminum 1, aluminum 2, titanium, plywood, plank, tile) are transferred to a pattern simulating the CADAM pattern. CADAM standard patterns based on repeating cells (brick, soil, hex, herring) are transferred as basic hatch patterns. |
| User defined areafill patterns | Areafill pattern (simple hatch pattern) | User defined CADAM areafill patterns are transferred as simple areafill hatch patterns. |



Text-Based Annotations and Text Properties

Text based annotations are defined to be any element with a text component other than dimensions.

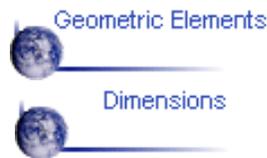
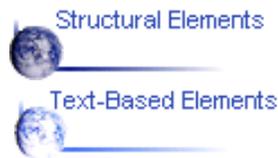
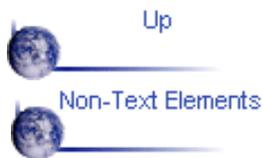
The following table outlines the specific mappings for text-based annotations and annotation properties:

Note: Not transferred (*) designates that the element or property is not supported in the current release of the V5 Interactive Drafting product.

| CADAM Drafting Element/Property | Interactive Drafting Element/Property | Comments |
|---------------------------------|---------------------------------------|---|
| <i>Character encoding:</i> | | |
| Unicode | Unicode | Both CADAM Drafting and Interactive Drafting use the Unicode standard for character encoding. Therefore, all characters with standard Unicode character codes are transferred without any mapping. There are a small number of characters (specifically, engineering symbols such as & , Ⓔ) that don't have standard Unicode character codes. In these cases, the character code is mapped from the CADAM Drafting defined Unicode character code to the Interactive drafting defined Unicode character code. |
| <i>Text based Annotations:</i> | | |
| Arrow with text | Text with leader | The text with leader functionality provided with the Interactive Drafting product is slightly different from CADAM Drafting. Specifically, with CADAM Drafting the user can define the length of the leader segment adjacent to the text. With Interactive drafting, the length of this segment is fixed. Therefore, the leader head position and the text position will transfer as it exists in the CADAM Drafting model, but the leader segments may not be visually the same. |
| Balloon | Circle and text | A CADAM Drafting balloon is transferred to a circle and a text element (rather than a balloon) because the functionality and text capabilities of a CADAM Drafting balloon are closer to an Interactive Drafting text element. If the balloon has a CADAM arrow attached, the arrow is transferred as a separate element. |
| Delta | Lines, arcs, and text | A CADAM Drafting delta is transferred to lines, arcs, and a text element as this best simulated the visual appearance of the CADAM delta symbol. If the delta has an arrow attached, the arrow is transferred as a separate element. |
| Text | Text and/or GD&T | In general, CADAM Drafting text elements are transferred to text elements in Interactive Drafting. As Interactive Drafting supports an intelligent GD&T element, the transfer will create a GD&T element when the CADAM Drafting string matches the characteristics of a standard GD&T. Note that a CADAM Drafting string with plain text and GD&T constructs may be transferred to a set of text elements and a set of GD&T elements. If multiple text and/or GD&T elements are create, they will be associated to each other. |
| Text on a curve | Text | The text is transferred as individual letters. |
| Textline | Text and lines | The text and lines are not associated after the transfer. |
| <i>Text string properties:</i> | | |

| | | |
|---------------------|--------------------------------------|--|
| Character height | Font size | Note: CADAM Drafting supports negative character height, which is not supported by Interactive Drafting. Therefore, text with a negative character height will be transferred with the font size set to the absolute value of the character height. |
| Character width | Character width | Although the CATIA-CADAM Interface product sets this property, it is not accessible to an Interactive Drafting user in the current release. Note: CADAM Drafting supports negative character width, which is not supported by Interactive Drafting. Therefore, text with a negative character width will be transferred with the character width set to the absolute value of the CADAM Drafting character width. |
| Fill justification | Not transferred (*) | |
| Horizontal spacing | Character spacing | Although the CATIA-CADAM Interface product sets this property, it is not accessible to an Interactive Drafting user in the current release. Note: CADAM Drafting supports negative horizontal spacing, which is not supported by Interactive Drafting. Therefore, text with a negative horizontal spacing will be transferred with the character spacing set to the absolute value of horizontal spacing. |
| Justification | Justification | |
| Line Weight | Plain text/bold | The line weight property does not exist for text in the Interactive Drafting product. Therefore, any CADAM Drafting text with non-zero line weight is transferred to "bold" text in Interactive Drafting. |
| Scale/no scale flag | Not transferred (*) | This property does not affect the display of the text. With the current release of Interactive Drafting, all text behaves similar to "no scale". |
| Slant | Slant | Although the CATIA-CADAM Interface product sets this property, it is not accessible to an Interactive Drafting user in the current release. Text boxes defined on slanted text display slanted with the CADAM Drafting product. The Interactive Drafting product will display the text characters slanted, but the text box will not display slanted. |
| Span | Text box width | |
| Text angle | Text orientation | |
| Text direction | Not transferred (*) | |
| Text mirror | Not transferred (*) | |
| Text position | Text anchor point | CADAM Drafting supports 5 horizontal by 5 vertical positions. Interactive Drafting supports 3 horizontal by 3 vertical positions. The transfer maps the CADAM Drafting position to the closest Interactive drafting anchor point. |
| Turn/no turn flag | Orientation association of the text. | If the property is set to "no turn", the text is transferred with its orientation associated to the drawing Sheet. In this case, the text will not rotate if the view is rotated. If this property is set to "turn", the text is transferred with its orientation associated to the view. In this case, the text will rotate if the view is rotated. |

| | | |
|---|-----------------------------------|---|
| Vertical spacing | Interline spacing | Although the CATIA-CADAM Interface product sets this property, it is not accessible to an Interactive Drafting user in the current release. Note: CADAM Drafting supports negative vertical spacing, which is not supported by Interactive Drafting. Therefore, text with a negative vertical spacing will be transferred with the interline spacing set to the absolute value of the vertical spacing. |
| <i>Substring properties:</i> | | |
| Fractional display | Numerator followed by denominator | The current release of Interactive Drafting does not support a numerator over denominator display. Therefore the fraction will be displayed as numerator/denominator. |
| Full, half, and 3/4 superscripting and subscripting | Superscripting and subscripting | The Interactive Drafting product does not support multiple lines or "stacked" super/subscripting. Text with 2 lines of super/subscripting will be transferred with the first "stacked" line transferred to superscript followed by the second "stacked" line as subscript. If a string has more than 2 stacked lines, the third and subsequent lines will be transferred as new lines in text string. |
| Substring box | Substring box | The CADAM Drafting product supports three substring box displays. The Interactive Drafting product supports two substring box displays. The CADAM large and medium substring box are transferred to the Interactive Drafting large substring box display. The CADAM small substring box is transferred to the Interactive Drafting small substring box display. Note that CADAM can mix all three substring box displays within one string. For Interactive Drafting, all substring boxes within a string must be the same size. Therefore, if a CADAM string has different size substring boxes, all will be transferred as the size of the first substring box encountered in the string. In addition, the sizes of the substring boxes are not identical between CADAM Drafting and Interactive Drafting. Therefore, the text may have a slightly different overall size after the transfer. |
| Substring lozenge | Substring lozenge | |
| Underscore/overscore | Underline/overline | |



Dimensions and Dimension Properties

The dimension facility provided with the current release of the Interactive Drafting product does not support all capabilities currently provided by the CADAM Drafting product. Therefore, after the transfer of dimensions from CADAM Drafting to the Interactive Drafting product, the display of the dimension may not be visually identical. The actual visual difference is based on the dimension type and the associated properties (specific cases are listed in the following table). Due to this, the CATIA-CADAM Interface product provides you with the option to "explode" dimensions into geometry and text during the transfer. If you set this option, all dimensions will be transferred as geometry and text only.

In certain instances of dimensions defined with the CADAM Drafting product, there is not a logical mapping to a supported dimension in the Interactive Drafting product. In these cases, the dimension is automatically exploded to geometry and text. The specific cases are listed in the mapping table below.

The following table outlines the specific mappings for dimensions and dimension properties:

Note: Exploded to geometry and text (*) designates that the dimension is converted to plain geometry and text upon transfer. Upon this conversion, the end conditions of the lines will be mapped to an arrow end condition, as this is the only end condition available for non-dimension geometry. For text that is generated during the conversion, all mapping information defined in the Text based Annotations and Text Properties section applies.

| CADAM Drafting Element/Property | Interactive Drafting Element/Property | Comments |
|---|---------------------------------------|--|
| <i>Dimension standards:</i> | | |
| ANSI dimensions | ANSI dimensions | |
| CADAM standard dimensions | ANSI dimensions | Inherent differences do exist between the "CADAM" standard and ANSI standard dimensions. These dimensions are transferred to the ANSI standard, as it is the closest standard supported with the Interactive Drafting product. |
| IBM standard dimensions | ISO Dimensions | Inherent differences do exist between the "IBM" standard and ISO standard dimensions. These dimensions are transferred to the ISO standard as is the closest standard supported with the Interactive Drafting product. |
| ISO Dimensions | ISO Dimensions | |
| JIS dimensions | JIS dimensions | |
| <i>Dimension - non supported cases:</i> | | |
| Chamfer dimension | Exploded to geometry and text (*) | Chamfer dimensions are not supported in the current release of the Interactive Drafting product. Therefore, these dimensions are exploded into geometry and text. |
| Datum dimension | Exploded to geometry and text (*) | Datum dimensions are not supported in the current release of the Interactive Drafting product. Therefore, these dimensions are exploded into geometry and text. |
| Extension lines - broken, no-shown, or skewed | Exploded to geometry and text (*) | Dimensions with modified extension lines are not supported in the current release of the Interactive Drafting product. Therefore, these dimensions are exploded into geometry and text. |

| | | |
|--|--|--|
| Parallel dimension to an arbitrary line | Exploded to geometry and text (*) | Dimensions that are created parallel to an arbitrary line are not supported in the current release of the Interactive Drafting product. Therefore, these dimensions are exploded into geometry and text |
| Spline dimension | Exploded to geometry and text(*) | Spline dimensions are not supported in the current release of the Interactive Drafting product. Therefore, these dimensions are exploded into geometry and text. |
| Text, non-standard text in dimension text string | Exploded to geometry and text (*) | Dimensions with non-standard text (e.g., line feeds, substring box, subscripting) are not supported in the current release of the Interactive Drafting product. Therefore, these dimensions are exploded into geometry and text. |
| <i>Dimension, special cases:</i> | | |
| Diameter dimension (ANSI), two part dimension line | Diameter dimension (ANSI), two part dimension line | For diameter dimensions with two part dimension lines, CADAM Drafting allows the interior portion of the dimension line to be not shown. The Interactive Drafting product supports the interior portion being not shown only when an addition segment is drawn on the opposite side of the circle. Therefore, the transferred dimension may not be visually identical. |
| Dimension with leader | Dimension with fixed leader position | The current version of the Interactive Drafting product does not allow explicit placement of dimension leaders. Therefore, the dimension will be transferred as a leader, but the position of the text and leader may be visually different. In addition, text associated with a leader for an ISO or JIS dimension in the CADAM Drafting product is displayed parallel to dimension line. With the Interactive Drafting product, this text is displayed horizontally. Therefore in this case, the leader and text will display at a different angle after transfer. |
| Radius dimension (ANSI), two part dimension line | Radius dimension (ANSI), two part dimension line | For radius dimensions with two part dimension lines, the portion of the dimension line on the interior of the arc is either not shown or drawn to the center of the circular arc on CADAM Drafting. The Interactive Drafting product allows the interior portion to be not shown, but it does not allow it to be drawn to the center of the arc. Therefore, all radius dimensions with two part dimension lines are transferred so the interior portion of the dimension line is not shown. |
| <i>Dimension properties:</i> | | |
| Dimension association to geometric element | Dimension association to geometric element | CADAM Drafting supports both associative and non-associative dimensions. The current release of Interactive Drafting only supports associative dimensions. Given this difference, non-associative dimensions are still transferred, but additional geometry is also created to satisfy the association. The additional geometry that is created is not shown. |
| Dimension line end conditions | Closest possible end condition | The current version of the Interactive Drafting product does not support all end conditions supported by CADAM Drafting. Therefore, end conditions will be mapped to the closest possible supported end condition. |

| | | |
|-------------------------------|--|---|
| Dimension text | Dimension value text, before, after, upper, lower text | The CADAM Drafting product treats the entire dimension text is as one text string. The Interactive Drafting product divides this into the dimension value text, before, after, upper, and lower text. Therefore, CADAM Drafting dimension text will be mapping to the appropriate dimension subtext. As stated above in the special case section, the dimension text elements in Interactive Drafting do not support all of the text properties or capabilities of CADAM Drafting. If CADAM Drafting dimension text is encountered that contains not supported properties, the dimension is exploded to geometry and standard text. |
| Dimension units | Closest possible dimension units | The current version of the Interactive Drafting product only supports dimensioning units of inches and millimeters. Therefore, dimensions using inch dimensioning units will be transferred to inch dimensioning units. All other dimensions will be transferred to millimeter dimensioning units. |
| Extension line, gapping | Extension line, blanking | CADAM Drafting supports extension line gapping values of standard, no gap, and overlap. The interactive drafting product supports only positive values for blanking. "Standard" and "no gap" will be mapping to appropriate values of blanking. As overlap implies a negative blanking value, it will be transferred as 0 blanking (equivalent to no gap). |
| Extension line, overshoot | Extension line, overrun | The interactive drafting product supports only positive overrun values. Therefore, any CADAM Drafting overshoot value less than 0 will be transferred as 0. |
| Text location | Dimension value location | Because of differences in text properties, as well as differences in the way CADAM Drafting and CATIA V5 Interactive Drafting manage dimension text (see "Dimension text," above), the text location may be different after translation. |
| Tolerance, basic | Dimension value with text box frame | CADAM Drafting supports three different sizes of text box frames. Interactive Drafting supports one text box frame. Therefore, the transferred text box frame may not be visually identical. |
| Tolerance, limit | Dual dimension value | |
| Tolerance, single | Tolerance, numerical tolerance | |
| Tolerance, standard tolerance | Tolerance, numerical tolerance | The display of the tolerance information is slightly different between CADAM Drafting and the Interactive Drafting product. For example, when you define an upper and lower tolerance that are equal, both are displayed. For this case, in the Interactive Drafting product, the tolerance value is displayed only once, preceded by the \pm symbol. Upon transfer, the closest possible tolerance display will be chosen. |
| Tolerance, text height | Tolerance, font size | CADAM Drafting allows you to create 1/2- or 3/4-size text for tolerance values. CATIA V5 Interactive Drafting supports only full-size text, so all tolerance values are displayed full size after translation. |
| Value, decimal places | Value, precision | |
| Value, angle format | Value, angular units | |

 Up
 Non-Text Elements

 Structural Elements
 Text-Based Elements

 Geometric Elements
 Dimensions

Basic Tasks

[Setting Options for the CATIA-CADAM Interface Product](#)

[Opening a CADAM Drafting Model in V5](#)

[Saving a V5 Drafting Document as a CADAM Drafting Model](#)

Setting Options for the CATIA-CADAM Interface Product



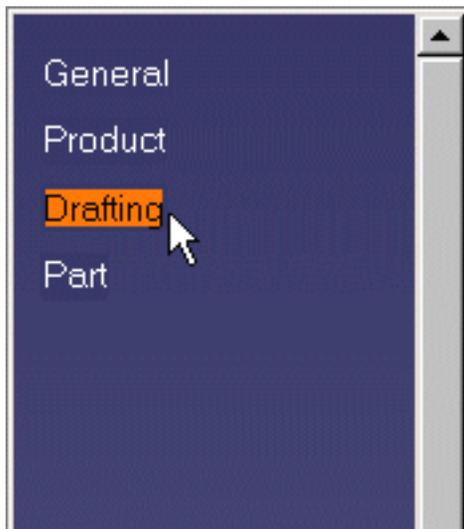
This task explains how to set the output options for the CATIA-CADAM Interface product.



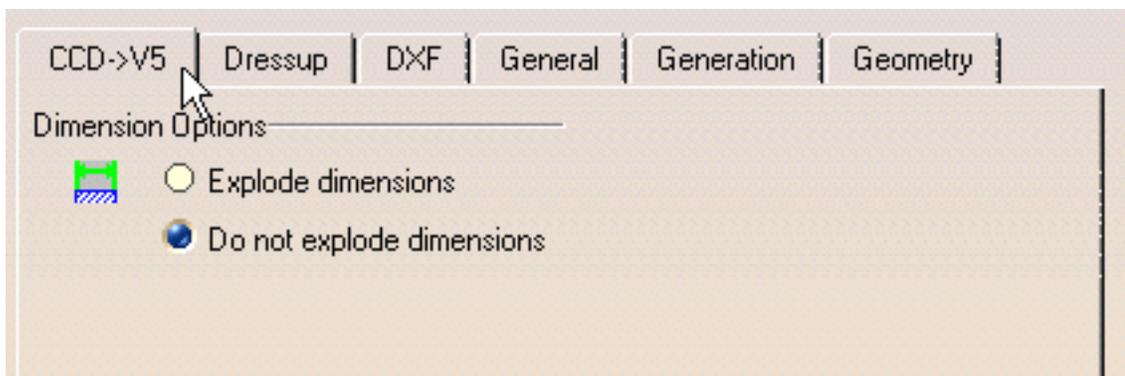
1. Select the Tools -> Options command.



2. Select the Drafting category from the left column of the dialog box.



3. Select the CCD -> V5 tab.



4. Select the appropriate option.

Select **Explode dimensions** to change dimensions into CATIA V5 text, lines, and arcs.
Select **Do not explode dimensions** to reproduce dimensions as CATIA V5 dimensions.



Opening a CADAM Drafting Model in V5



This task explains how to open a CADAM Drafting model in CATIA Version 5.



1. Click the Open icon  or select the File->Open... command.

2. In the File Selection dialog box, navigate to the appropriate folder.



You can filter the list of files to display only CADAM Drafting models by defining Files of type: cdd (*.cdd)

3. Select the model.



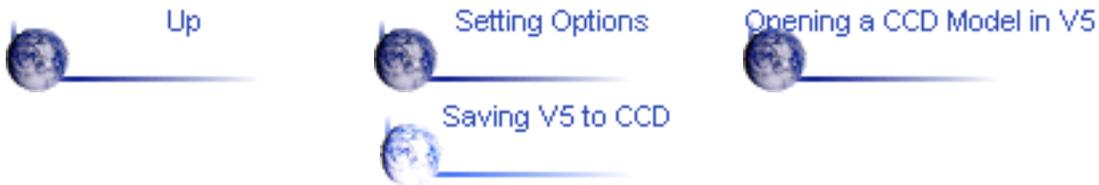
new Saving a V5 Drafting Document as a CADAM Drafting Model



This task explains how to save a V5 Drafting document as a CADAM Drafting model..



1. Select the File->SaveAs... command.
2. Define CADAM as the file type by defining Save as type: cdd.
3. In the SaveAs dialog box, navigate to the appropriate folder.
4. Click the Save button to save the document as a CADAM model.



Advanced Tasks

| Theme | Purpose |
|--|---|
| Preparing a CADAM Drafting Model for Translation | Provides guidelines for preparing a CADAM Drafting model for translation to CATIA in order to optimize the translation results. |

Preparing a CADAM Drafting Model for Translation

In order to produce the best possible results when moving a CADAM Drafting model to CATIA V5, you should be aware that:

- PROFESSIONAL CADAM models (**D_modelID** files) are not supported.
Recommendation: Translate the **D_modelID** files to the **.cdd** format before moving them to CATIA V5. See the *CATIA-CADAM Drafting Installation Guide* for instructions.
- Only single-model files (**.cdd** files) are supported. Overlay parent models (**.cdo** files) are not supported in this release.
- Only 2D drafting elements are supported. Other types of elements (e.g., 3D and NC) are not supported.
- Reference entities are not supported.
Recommendation: Whenever possible (and practical), place reference entities directly in the desired model. Use the Cut/copy/paste facility to accomplish this quickly.
- Symbol table symbols are not supported.
Recommendation: Convert all symbol table symbols to geometry before you try to translate the model. To do this, follow these steps:
 1. Call the model.
 2. Select function key SYMBOL.
 3. Select /SPECIAL/ + /CONVERT/ + /CONVERT ALL/.
 4. Select YN.
 5. File the model.
- You should overfile or explicitly pack the model (using function key SHOW, menu option /PACK/) to minimize the space needed for the model, as well as the time needed to process the translation.



Glossary

A

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|----------------------------|---|
| accelerator key | See shortcut key . |
| access bar | See desktop toolbar . |
| access key | The key that corresponds to an underlined letter on a menu or control (also referred to as a mnemonic access key). |
| accessibility | Designing software to be usable and accessible to the widest range of users, including users with disabilities. |
| active | The state when an object is the focus of user input and its operations are available. |
| active end | The ending point for a selected range of objects. It is usually established at the object logically nearest the hot spot of the pointer when a user releases a mouse button. Compare anchor point . |
| active object | Object currently being edited. |
| active window | The window in which a user is currently working or directing input. An active window is typically at the top of the Z order and is distinguished by the color of its title bar. Compare inactive window . |
| album | Collection of images you generate with the Tools -> Capture command. |
| anchor point | The starting point for a selected range of objects. An anchor point is usually established at the object logically nearest the hot spot of the pointer when a user presses a mouse button. Compare active end . |
| anti-aliasing | A graphic design technique that involves adding colored pixels to smooth the jagged edges of a graphic. |
| application window | Window containing the CATIA Version 5 application. |
| apply | To commit a set of changes or pending transactions made in a secondary window, typically without closing that window. |
| auto-exit | A text box in which the input focus automatically moves to the next control as soon as a user types the last character. |
| auto-joining | The movement of text to fill a remaining gap after a user deletes other text. |
| automatic scrolling | A technique where a display area automatically scrolls without direct interaction with a scroll bar. |

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| auto-repeat | An event or interaction that is automatically repeated. Auto-repeat events usually occur when a user holds down a keyboard key or presses and holds a special control (for example, scroll bar buttons). |
| B | |
| background | Area in document windows to which you can apply a background color. |
| box edit | A standard Microsoft Windows interface control that provides a discrete area for entering each character. A user can also edit text within the control. |
| C | |
| cancel | To halt an operation or process and return to the state before it was invoked. Compare stop . |
| caret | See insertion point . |
| cascading menu | A menu that is a submenu of a menu item (also referred to as a hierarchical menu, child menu, or submenu). |
| check box | A standard Windows control that displays a setting, either checked (set) or unchecked (not set). Compare option button . |
| child menu | See cascading menu . |
| child window | A document window used within an MDI window. See also multiple document interface . |
| click | (v.) To position the pointer over an object and then press and release a mouse button. See also press . (n.) The act of clicking. |
| clipboard | The area of storage for objects, data or their references after a user carries out a Cut or Copy command. |
| clipboard format | The data format of a memory object on the clipboard. Applications can use the standard clipboard formats provided by Windows or register their own custom formats. A clipboard format is identified by a unique, unsigned integer value, called the "format name." |
| clipping | Depth effect for viewing parts or all of a 3D object between two planes. |
| close | To remove a window. |
| character set | A character is any symbol used for the organization, control, or representation of data. A group of such symbols used to describe a particular language. Each language (or group of languages) has its character set |

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| code page | A collection of characters that make up character set. See also locale . |
| code set | A code page (or code set) is a table mapping a given character (from a given character set) to a hexadecimal code position, or code point , for that code page. It contains the encoding values for a character set or several character sets. The encoding values in a code set provide the interface between the system and its input and output devices. |
| collection | A set of objects that shares some common aspect. |
| column heading | A standard Windows control that can be used to provide interactive column titles for a list. |
| combo box | A standard Windows control that combines a text box and interdependent list box. |
| command button | A standard Windows control that initiates a command or sets an option (also referred to as a push button). |
| composite | A set or group of objects whose aggregation is recognized as an object itself (for example, characters in a paragraph, named range of cells in a spreadsheet, or a grouped set of drawing objects). |
| constraint | A relationship between a set of objects, such that making a change to one object affects another object in the set. |
| container | An object that holds other objects. |
| context-sensitive Help | Information about an object and its current condition. It answers the questions "What is this" and "Why would I want to use it?" Compare reference Help and task-oriented Help . |
| contextual | Specific to the conditions in which something exists or occurs. |
| contextual menu | A menu that is displayed at the location of a selected object (also referred to as a shortcut menu). The menu contains the commands that are contextually relevant to the selection, and the most frequently used. You display the contextual menu by right-clicking. |
| contextual window | A secondary window with no title bar that is displayed next to an object; it provides contextual information about that object. |
| contiguous selection | A selection that consists of a set of objects that are logically sequential or adjacent to each other (also referred to as range selection). Compare disjoint selection . |

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| control | An object that enables user interaction or input, often to initiate an action, display information, or set values. |
| current | State of an object when selected. |
| cursor | A generic term for the visible indication of where a user's interaction will occur. See also input focus , insertion point , and pointer . |

D

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| data-centric design | A design in which users interact with their data directly without having to first start an appropriate editor or application. |
| data link | A link that propagates a value between two objects or locations. |
| default | An operation or value that the system or application assumes, unless a user makes an explicit choice. |
| default button | The command button that is invoked when a user presses the ENTER key. A default button typically appears in a secondary window. |
| desktop | The visual work area that fills the display. The desktop is also a container and can be used as a convenient location to place objects stored in the file system. |
| desktop toolbar | A toolbar that docks to the desktop, similar to the taskbar. See also taskbar . |
| dialog base unit | A device-independent measure to use for layout. One horizontal unit is equal to one-fourth of the average character width for the current system font. One vertical unit is equal to one-eighth of an average character height for the current system font. |
| dialog box | A secondary window that gathers additional information from a user. A dialog box usually contains one or more controls, such as buttons, list boxes, combo boxes, and edit boxes, with which the user enters text, chooses options, or directs the action of the command. Compare message box , palette window , and property sheet . |
| dimmed | See unavailable . |
| disjoint selection | A selection that consists of a set of objects that are not logically sequential or physically adjacent to each other. Compare contiguous selection . See also extended selection . |
| dock | To manipulate an interface element, such as a toolbar, such that it aligns itself with the edge of another interface element, typically a window or pane. |

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| document | A common unit of data (typically a file) used in user tasks and exchanged between users. When saved on disk, a document is given a unique filename by which it can be retrieved. |
| document window | A window that provides a primary view of a document (typically its content). |
| double-click | (v.) To press and release a mouse button twice in rapid succession. (n.) The act of double-clicking. |
| duplicate | Performs mirroring or pattern operations on an active object. |

E

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| edit field | See text box . |
| Edit menu | A common drop-down menu that includes general purpose commands for editing the current object, such as Cut, Copy, and Paste. |
| ellipsis | The "... " suffix added to a menu item or button label to indicate that the command requires additional information to be completed. When a user chooses the command, a dialog box is usually displayed for the user input of this additional information. |
| embedded object | See OLE embedded object . |
| enter | (v.) To type a character from the keyboard. (n.) A classification of an object based on its characteristics, behavior, and attributes. |
| explicit selection | A selection that a user intentionally performs with an input device. Compare implicit selection . |
| extended selection | A selection technique that is optimized for the selection of a single object or single range using contiguous selection techniques (that is, canceling any existing selection when a new selection is made). However, it also supports modifying an existing selection using disjoint selection techniques. See also disjoint selection . |
| extended selection list box | A list box that supports multiple selection, but is optimized for a selection of a single object or single range. See extended selection and list box . Compare multiple selection list box . |

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| filter | Tool for organizing elements of V4 model document into layers. |
| File menu | A common drop-down menu that includes commands for file operations, such as Open, Save, and Print. |
| font | A set of attributes for text characters. |
| font size | The size of a font, typically represented in points. |

G

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| geometry area | Area of a document window in which application data are displayed and edited. |
| glyph | A generic term used to refer to any graphic or pictorial image that can be used on a button or in a message box. Compare icon . |
| group box | A standard Windows control that groups a set of controls. |

H

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| handle | An interface element added to an object that provides a control point for moving, sizing, reshaping, or other operations pertaining to that object. |
| Help menu | A common drop-down menu that includes commands that provide access to Help information or other forms of user assistance. See also context-sensitive Help , and task-oriented Help . |
| heterogeneous selection | A selection that includes objects with different properties or type. Compare homogeneous selection . |
| hierarchical menu | See cascading menu . |
| hold down | To continue pressing a keyboard key, or mouse button. |
| homogeneous selection | A selection that includes objects with the same properties or type. Compare heterogeneous selection . |
| hot spot | The specific portion of the pointer (or pointing device) that defines the exact location, or object, to which a user is pointing. |
| hot zone | The interaction area of a particular object or location with which a pointer or pointing device's hot spot must come in contact. |

I

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| icon | A pictorial representation of an object. Compare glyph . |
| implicit selection | A selection that is the result of inference or the context of some other operation. See also explicit selection . |
| inactive | The state of an object which it is not the focus of a user's input. |
| inactive window | A window in which a user's input is not currently being directed. An inactive window is typically distinguished by the color of its title bar. Compare active window . |
| in-place activation | The ability to edit an OLE embedded object in place, without opening it into its own window. |
| input focus | The location where the user is currently directing input. |
| input focus appearance | The visual display of a control or other object that indicates when it has the input focus. |
| insertion point | The location where text or graphics will be inserted (also referred to as the caret). Also used for text box controls to indicate input focus. |
| inside-out activation | A technique that allows a user to directly interact with the content of an OLE embedded object without executing an explicit activation command. Compare outside-in activation . |
| interoperability | <ul style="list-style-type: none">● Ability to exchange data between CATIA Version 4 and CATIA Version 5.● Ability to exchange CATIA Version 5 data between CATIA Version 5 workshops● Ability to exchange data between CATIA Version 5 and OLE-compliant applications. |

J

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| jump | A special form of a link that navigates to another location (also referred to as a hyperlink). |
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L

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| label | The text (or graphic) that identifies a control (also referred to as a caption). |
| landscape | An orientation where the long dimension of a rectangular area (for example, screen or paper) is horizontal. |
| link | (v.) To form a connection between two objects. (n)) A reference to an object that is linked to another object. See also OLE linked object . |

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| link path | The descriptive form of referring to the location of a link source (also referred to as a moniker). |
| list box | A standard Windows control that displays a list of choices. See also extended selection list box . |
| list view | A standard Windows list box control that displays a set of objects. The control also supports different views and drag and drop. |
| locale | A part of a user's environment dedicated to international data to define conventions for a specified culture, such as time formatting, numeric formatting, and character classification, conversion, and collation. |
| localization | The process of adapting software for different countries, languages, or cultures. |

M

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| marquee | See region selection and bounding outline. |
| maximize | To make a window its largest size. See also minimize . |
| MDI | See multiple document interface . |
| menu | A list of textual or graphical choices from which a user can choose. See also contextual menu . |
| menu bar | A horizontal bar at the top of a window, below the title bar, that contains menus. |
| menu button | A command button that displays a menu. |
| menu item | A choice on a menu. |
| menu title | A text or graphic label that designates a particular menu. For drop-down menus, the titles is the entry in the menu bar; for cascading menus the menu title is the name of its parent menu item. |
| message box | A secondary window that is displayed to inform a user about a particular condition. Compare dialog box , palette window , and property sheet . |
| minimize | To minimize the size of a window: in some cases, this means to hide the window. See also maximize . |
| mirror | An operation creating a 3D object by duplicating an initial object. The duplication is defined by symmetry. |
| mnemonic | See access key . |

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| modal | A restrictive or limiting interaction because of operating in a mode. Modal often describes a secondary window that restricts a user's interaction with other windows. A secondary window can be modal with respect to its primary window or to the entire system. Compare modeless . |
| mode | A particular state of interactions, often exclusive in some way to other forms of interactions. |
| model | CATIA Version 4 model. |
| model document | Document containing a CATIA Version 4 model. |
| modeless | Not restrictive or limiting interaction. Modeless often describes a secondary window that does not restrict a user's interaction with other windows. Compare modal . |
| modifier key | A keyboard key that, when pressed, (and held), changes the actions of input. |
| moniker | See link path . |
| most recently used | List of most recently used files (MRU) located in the File menu for easy access. |
| mouse | A commonly used input device that has one or more buttons used to interact with a computer. It is also used as a generic term to include other pointing devices that operate similarly (for example, trackballs and headpointers). |
| multiple document interface (MDI) | A technique for managing a set of windows whereby documents are opened into windows (sometimes called child windows) that are constrained to a single primary (parent) window. See child window , and parent window . |
| multiple selection list box | A list box that is optimized for making multiple, independent selections. Compare extended selection list box and single selection list box . |

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| network license | A license maintained on a network license server for use upon request by a License Use Runtime (LUM) client. Compare nodelocked license . |
| non-default drag and drop | A drag (transfer) operation whose interpretation is determined by a user's choice of command. These commands are included in a pop-up menu displayed at the destination when the object is dropped. |

nodelocked license A type of license locked to a specific node, so that the product can be used only at that node. The nodelocked license is installed on the computer for which it was created. Compare [network license](#).

O

object An entity or component identifiable by a user that can be distinguished by its properties, operations, and relationships.

OLE Object Linking and Embedding. The name that describes the technology and interface for implementing support for object interaction.

OLE embedded object A data object that retains the original editing and operating functionality of the application that created it, while physically residing in another document.

OLE linked object An object that represents or provides an access point to another object that resides at another location in the same container or a different, separate container. See also [link](#).

operation A generic term that refers to the actions that can be done to or with an object.

option button A standard Windows control that allows a user to select from a fixed set of mutually exclusive choices (also referred to as a radio button). Compare [check box](#).

outside-in activation A technique that requires a user to perform an explicit activation command to interact with the content of an OLE embedded object. Compare [inside-out activation](#).

P

package An OLE encapsulation of a file so that it can be embedded in an OLE container.

palette window A modeless secondary window that displays a tool bar of other choices, such as colors or patterns. Compare [dialog box](#) and [message box](#). See also [property sheet](#).

pane One of the separate areas in a split window.

parent window A primary window that provides window management for a set of child windows. See also [child window](#) and [multiple document interface](#).

persistence The principle that the state of an object is automatically preserved.

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| point | (v.) To position the pointer over a particular object at a location. (n.) A unit of measurement for type (1 point equals approximately 1/72 inch). |
| pointer | A graphic image displayed on the screen that indicates the location of a pointing device (also referred to as a cursor). |
| portrait | An orientation where the long dimension of a rectangular area (for example, screen or paper) is vertical. |
| press | To press and release a keyboard key. See also click . |
| preview | Tool allowing you to view a document or album image prior to printing. |
| primary window | The window in which the main interaction takes place. See also secondary window and window . |
| progress indicator | Any form of feedback that provides the user with information about the state of a process. |
| progress indicator control | A standard Windows control that displays the percentage of completion of a particular process as a graphical bar. |
| project | A window or task management technique that consists of a container holding a set of objects, such that when the container is opened, the windows of the contained objects are restored to their former positions. |
| property | Attribute or characteristic of an object that defines its state, appearance, or value. |
| property inspector | A dynamic properties viewer that displays the properties of the current selection, usually of a particular type of object. Compare property sheet . |
| property page | A group of properties on a tabbed page or a property sheet. See also property sheet . |
| property sheet | A secondary window that displays the properties of an object when a user chooses its Properties command. Compare dialog box . See also property page . |
| property sheet control | A standard Windows control used to create property sheet interface. |
| push button | See command button . |
| R | |
| radio button | See option button . |
| range selection | See contiguous selection . |
| redo | Repeat the last operation. |

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| reference Help | A form of online Help information that can contain conceptual and explanatory information. Compare task-oriented Help and context-sensitive Help . |
| region selection | A selection technique that involves dragging out a bounding outline (also referred to as a marquee) to define the selected objects. |
| relationship | The context or way an object relates to its environment. |
| rich-text box | A standard Windows control that is similar to a standard text box, except that it also supports individual character and paragraph properties. |
| right-click | Click using the right mouse button (to display contextual menu). |
| S | |
| scale | Operation that resizes the contents of document prior to printing or previewing. |
| scope | The definition of the extent that a selection is logically independent from other selections. For example, selections made in separate windows are typically considered to be independent of each other. |
| scroll | To move the view of an object or information to make a different portion visible. |
| scroll arrow button | A component of a scroll bar that allows the information to be scrolled by defined increments when the user clicks it. The direction of the arrow indicates the direction in which the information scrolls. |
| scroll bar | A standard Windows control that supports scrolling. |
| scroll bar shaft | The component of a scroll bar that provides the visual context for the scroll box. Clicking (or tapping) in the scroll bar shaft scrolls the information by a screenful. See also scroll box . |
| scroll box | A component of a scroll bar that indicates the relative position (and optionally the proportion) of the visible information relative to the entire amount of information. The user can drag the scroll box to view areas of information not currently visible. See also scroll bar shaft . |
| secondary window | A window that provides information or supplemental interaction related to objects in a primary window. |
| section view | 3D view of a cross-section generated using a plane. |
| select | To identify one or more objects upon which an operation can be performed. |
| selection | An object or set of objects that have been selected. |

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| selection appearance | The visual display of an object when it has been selected. |
| selection handle | A graphical control point of an object that provides direct manipulation support for operations of that object, such as moving, sizing, or scaling. |
| selection set | A group of selected objects that you can store and retrieve. |
| Send To separator settings | Tool used for sharing document files with other users. An entry in a menu used to group menu items together. Set of setup parameters and user preferences stored in non-editable files. |
| shell | A generic term that refers to the interface that allows the user control over the system. |
| shortcut | A generic term that refers to an action or technique that invokes a particular command or performs an operation with less interaction than its usual method. |
| shortcut icon | A link presented as an icon that provides a user with access to another object. |
| shortcut key | A keyboard key or key combination that invokes a particular command (also referred to as an accelerator key). |
| shortcut menu | See contextual menu . |
| single selection list box | A list box that only supports selection of a single item in the list. |
| size grip | A special control that appears at the junction of a horizontal and vertical scroll bar or the right end of a status bar and provides an area that a user can drag to size the lower right corner of a window. |
| slider | A standard Windows control that displays and sets a values from a continuous range of possible values, such as brightness or volume. |
| specification tree | Area of the document window reserved for viewing the design specifications of a part, presented in the form of a tree structure. |
| spin box | A control composed of a text box and increment and decrement buttons that allow a user to adjust a values from a limited range of possible values. |
| split split bar | An operation allowing splitting 3D objects using a plane. A division between panes that appears where a window has been split; the split bar visually separates window panes. |

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| split box | A special control added to a window, typically adjacent to the scroll bar, that allows a user to split a window or adjust a window split. |
| standard view | Typical view available in 3D workshops: top, bottom, front, back, left, right, isometric. |
| status bar | An area that allows the display of state information of the information being viewed in the window, typically places at the bottom of a window. |
| status bar control | A standard Windows control that provides the functionality of a status bar. |
| stop | To halt a process or actions, typically without restoring the state before the process began. Compare cancel . |
| submenu | See cascading menu . |

T

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| tab control | A standard Windows control looks similar to a notebook or file divider and provides navigation between different pages or sections of information. |
| targeting | To determine where pen input is directed. |
| taskbar | A special toolbar that docks on an edge of the desktop supplied by the system. The taskbar includes the Start button, buttons for each open primary window, and a status bar. |
| task-oriented Help | Information about the steps involved in carrying out a particular task. Compare context-sensitive Help and reference Help . |
| template | An object that automates the creation of new objects of a particular type. |
| text box | A standard Windows control in which a user can enter an edit text (also referred to as the edit field). |
| thread | A process that is part of a larger process or program. |
| title bar | The horizontal area at the top of a window that identifies the window. The title bar also acts as a handle for dragging the window. |
| toggle key | A keyboard key that alternates between turning a particular operation, function, or mode on or off. |
| toolbar | A frame or special area that contains a set of other controls. |
| toolbar button | A command button used in a toolbar (or status bar). |
| toolbar control | A standard Windows control designed with the same characteristics as the toolbar. |

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| tooltip | A standard Windows control that provides a small pop-up window that provides descriptive text such as a label, for a control or graphic object. |
| transfer appearance | The visual feedback displayed during a transfer operation. |
| tree control | A standard Windows control that allows a set of hierarchically related objects to be displayed as an expandable outline. |

U

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| unavailable | The state of a control or data whose normal functionality is not presently available to a user (also referred to as dimmed). |
| undo | To reverse one operation performed on an object. |
| user-defined view | 3D view an end user can generate by customizing view parameters. The view can be named. Also referred to as named view. |

V

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| view toolbar | Toolbar containing viewing tools. |
| viewing tools | Tools for viewing contents of current document in different ways. |
| VRML | Virtual Reality Markup Language. A vector-based language for modeling three-dimensional environments. It sends ASCII text files over the Internet, which are translated by the VRML viewing engine at the other end. VRML complements HTML. This format is useful for viewing CATIA Version 5 data using a Web browser. |

W

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| well control | A control that is used to display color or pattern choices, typically used like an option button. |
| window | A standard Windows object that displays information. A window is a separately controllable area of the screen that typically has a rectangular border. See also primary window and secondary window . |
| wizard | A form of user assistance that automates a task through a dialog with the user. |
| wordwrap | The convention where, as a user enters text, existing text is automatically moved from the end of a line to the next line. |

workbench

Set of tools for completing specific tasks. Each type of document can be edited with a document-specific set of tools.

workspace

A window or task management technique that consists of a container holding a set of objects, where the windows of the contained objects are constrained to a parent window. Similar to the multiple document interface, except that the window displayed within the parent window are of objects that are also contained in the workspace.

writing tool

A standard Windows pen interface control that supports text editing.

Z**Z order**

The layered relationship of a set of objects, such as windows, on the display screen.

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