4D Write Pro Reference

- Presentation
- Defining a 4D Write Pro area
- Storing 4D Write Pro documents in 4D Object fields
- Using a 4D Write Pro area
- Printing 4D Write Pro documents
- Filter expressions contained in a 4D Write Pro document
- Importing 4D Write documents
- 4D Write Pro Language
- What's new
Overview

4D Write Pro offers 4D users an advanced word-processing tool, fully integrated with your 4D database. Using 4D Write Pro, you can write pre-formatted emails and/or letters containing images, a scanned signature, formatted text and placeholders for dynamic variables. You can also create invoices or reports dynamically, including formatted text and images.

The key features of the product are:

- 4D Write compatibility: a 4D Write Pro object can open and convert legacy 4D Write documents while supporting most of their specific properties.
- Word processing: a 4D Write Pro object embedded in a form provides standard word-processing features, including text and style manipulation, image insertion, import and export, and much more.
- Database integration:
  - A 4D Write Pro object can display variable parts which will be filled with data from the database, or data computed by 4D.
  - 4D Write Pro documents can be stored within database fields or on disk.

Installation and activation

4D Write Pro is no longer a plug-in but is fully integrated into 4D itself, making it easier to deploy and manage. No additional installation is required; you can add 4D Write Pro areas to your forms and handle 4D Write Pro variables directly in your 4D applications.

However, note that 4D Write Pro uses the same license as 4D Write. You need to have this license installed in your application in order to enable the feature.

Requirements: On Windows, 4D Write Pro features rely on Direct2D. With Windows 7 or Windows Server 2008 machines, make sure the Platform Update for Windows has been installed so that the required Direct2D version is available.

About this manual

This manual is the 4D Write Pro Reference Guide. It covers all 4D Write Pro features, including the user interface and language commands.

Note that 4D Write Pro objects can be handled using specific commands ("4D Write Pro" theme) as well as commands from other 4D themes ("Objects (Forms)" and "Styled Text" themes), documented in the 4D Language Reference manual.
4D Write Pro

WP CREATE BOOKMARK
WP DELETE BOOKMARK
WP EXPORT DOCUMENT
WP EXPORT VARIABLE
WP GET ATTRIBUTES
WP Get bookmark range
WP GET BOOKMARKS
WP Get page count
WP Get paragraphs
WP Get pictures
WP Get range
WP Get selection
WP Import document
WP INSERT BREAK
WP INSERT DOCUMENT
WP INSERT PICTURE
WP Is font style supported
WP New
WP PRINT
WP RESET ATTRIBUTES
WP SELECT
WP SET ATTRIBUTES
WP USE PAGE SETUP
Defining a 4D Write Pro area

Creating the area

In 4D, 4D Write Pro documents are displayed and edited manually in a 4D form object named **4D Write Pro**. This object is available as part of the last tool (Plug-in Area, Web Area, etc.) found in the object bar:

A 4D Write Pro form area is configured by means of standard properties found in the Property List, such as **Object Name** and **Variable Name**, **Coordinates**, **Entry**, **Display**, **Appearance**, and/or **Events**.

The **Variable Name** property can be used in the language as a reference to the 4D Write Pro area. Note that the variable must be of the **Object** type (for more information, refer to the **C_OBJECT** command).

"Entry" properties manage basic features for text entry:

- **Entenable**: enables you to lock/unlock the area in order to allow or prevent editing
- **Auto Spellcheck**: available for 4D Write Pro areas
- **Context Menu**: allows you to enable/disable the context menu in Application mode (see the Using a 4D Write Pro area section)
- **Selection always visible**: handles text selection as in standard text areas.

Using the 4D Write Pro Widget of the Object library

You can create a preconfigured 4D Write Pro area using the **4D Write Pro** object found in the Object library ("Entry areas" theme):

This area comes with a control panel for managing all the attributes of the area (font, color, style, etc.):

For more information, refer to the **4D Write Pro area** section.

Configuring Drag and Drop

To configure the drag and drop features for your 4D Write Pro areas, you need to select the appropriate options in the "Action" theme of the Property List:
4D Write Pro areas support two drag and drop modes:

- **Custom mode**: only "Draggable" and "Droppable" options checked.
  In this mode, you can select text and start to move it. The object method is then called with the **On Begin Drag Over** event, and you can define the drop action using custom code.

- **Automatic mode**: "Draggable", "Droppable", "Automatic Drag" and "Automatic Drop" options checked.
  In this mode, you can automatically move or copy (by pressing the **Alt/Option** key) the selected text. The **On Begin Drag Over** event is not triggered.

**Note**: Selecting only "Automatic Drag" and "Automatic Drop" options will have no effect in the 4D Write Pro area.

### Configuring View properties

Document view properties are directly available in the Property list for 4D Write Pro areas to allow you to define how a 4D Write Pro document will be displayed by default in this area. These properties let you customize, for example, whether 4D Write Pro documents are displayed as they would be printed, or as they would be rendered in a browser. You can set different views of the same 4D Write Pro document in the same form.

Document view settings are handled through specific items in the **Appearance** theme of the Property list for 4D Write Pro form objects:

- **Resolution**: Sets the screen resolution for the 4D Write Pro area contents. By default, it is set to **72 dpi (Mac OS)**, which is the standard resolution for 4D forms on all platforms. Setting this property to **Automatic** means that document rendering will differ between Mac OS and Windows platforms. Setting a specific dpi value will make the document rendering the same on both Mac OS and Windows platforms.

- **Zoom**: Sets the zoom percentage for displaying 4D Write Pro area contents. Default is 100%.

- **View mode**: Sets the mode for displaying the 4D Write Pro document in the form area. Three values are available:
  - **Page** (default): the most complete view mode, which includes page outlines, orientation, margins, page breaks,
headers and footers, etc. For more information, please refer to the **Page view features** paragraph.

- **Draft**: draft mode with basic document properties
- **Embedded**: view mode suitable for embedded areas; it does not display margins, footers, headers, page frames, etc.
  This mode can also be used to produce a Web-like view output (if you also select the 96 dpi resolution and the **Show HTML WYSIWYG** option).

**Note**: The **View mode** property is only used for onscreen rendering. Regarding printing settings, specific rendering rules are automatically used (see **Printing 4D Write Pro documents**).

- **Show page frame**: Displays/hides the page frame when Page view mode is set to "Page". Default is hidden.

- **Show references**: Displays all inserted 4D expressions in the document as **references**. When this option is unchecked (default), 4D expressions are displayed as **values**. When you insert a 4D field or expression, 4D Write Pro computes and displays its current value. If you wish to know which field or expression is displayed, check this option. The field or expression references then appear in your document, with a gray background. For example, you have inserted the current date along with a format, the date is displayed:

  July 11, 2018

  If you check the **Show references** option, the reference is displayed:

  | String(Current date,Internal date long) |

**Note**: 4D expressions can be inserted using the **ST INSERT EXPRESSION** command.

- **Show headers/footers**: Displays/hides the headers and footers when Page view mode is set to "Page" (displayed by default). For more information on headers and footers, please refer to the section.

- **Show background**: Displays/hides both background images and background color (displayed by default).

- **Show hidden characters**: Displays/hides invisible characters (hidden by default).

- **Show HTML WYSIWYG**: Enables/disables the HTML WYSIWYG view, in which any 4D Write Pro advanced attributes which are not compliant with all browsers are removed (disabled by default).

**Compatibility note**: 4D Write Pro documents created with versions up to 4D v15 R5 are displayed using the default values for these properties, with the exception of the Resolution property, which is set to Automatic in this case.
Storing 4D Write Pro documents in 4D Object fields

You can store your 4D Write Pro documents automatically in the 4D data file. If you created a 4D Write Pro area on a form and created an Object field to store the area’s contents, any text entered in the area is saved automatically with each record when the record is validated. You can then use the QUERY BY ATTRIBUTE command in order to select records based on the value of their internal attributes. You can also add and query your own attributes with 4D Write Pro areas.

This section describes the following features:

- Binding a 4D Object field to a 4D Write Pro area in a form
- Setting, getting, and querying custom attributes of stored 4D Write Pro documents using the OB SET, OB Get standard object commands, and QUERY BY ATTRIBUTE.

Assigning a 4D Object field to a 4D Write Pro area

To bind a 4D Write Pro area with a 4D Object field, you just need to reference the field in the Variable Name property of the area.

Creating the Object field in the Structure

In your database structure, any 4D Object field can be used to store 4D Write Pro documents. As with any Object field, you just have to define its standard properties, according to your needs:

- the field name,
- its attributes, such as ”Expose with 4D Mobile Service,” as well as its index,
- its storage option (for more on this, see External data storage).

Assigning the Object field to the 4D Write Pro area

Once you have defined an Object field to store your 4D Write Pro document, you just need to reference it in the form containing the area. You can use any table or a project form.

In the Form editor, enter the field name using the standard "[Table]Field" notation in the Variable Name area of the Property list for the 4D Write Pro area:
Your 4D Write Pro area is then associated with the field, ensuring that its contents will be saved automatically with each record. Note that if you do not use the 4D automatic action buttons, you will have to save the area manually using 4D commands.

**Using custom attributes**

When 4D Write Pro areas are stored in Object fields, you can save and read any custom attributes with the 4D Write Pro document, such as, for example, the writer's name, the document category, or any additional information you may find useful. You can then query your custom attributes to select records matching the criteria.

Custom attributes will be exported with the WP EXPORT DOCUMENT or WP EXPORT VARIABLE commands. They will be exported as well when converting a 4D Write Pro Object field to JSON using the JSON Stringify command (along with the 4D Write Pro main document attributes).

To set or get custom attributes, you just need to use the standard OB Get and OB SET commands.

For example, in the form method, you can write:

```plaintext
If (Form event=On Validate)
    OB SET([MyDocuments]My4DWP;'myatt_Last edition by';Current user)
    OB SET([MyDocuments]My4DWP;'myatt_Category';"Memo")
End if
```

You can also read custom attributes of the documents:

```plaintext
vAttrib:=OB Get([MyDocuments]My4DWP;'myatt_Last edition by')
```

If you have saved custom 4D Write Pro attributes in your data file, you can query these attributes to create a selection of records containing the appropriate attribute value. In the following example, you query the table containing the Object field to select records:

```plaintext
QUERY BY ATTRIBUTE([MyDocuments];[MyDocuments]My4DWP;'myatt_Category';="Memo")
//selects all records in MyDocuments whose "myatt_Category" custom attribute has the value "Memo"
//in the My4DWP Object field (bound to a 4D Write Pro area)
```

**Note about custom attribute names:** Since custom attributes share the same naming space as 4D Write Pro internal attributes, we strongly recommend that you use prefixes when defining your own attribute names in order to avoid any conflicts between internal and custom attributes. Non-prefixed names are reserved for 4D Write Pro internal attributes. You can use any custom prefix (for instance, we used "myatt_" as a prefix in the above example).

**Note:** Starting with 4D v15 R4, 4D Write Pro internal attributes can also be accessed through programming using the standard QUERY BY ATTRIBUTE, OB Get and OB SET commands, but also using WP SET ATTRIBUTES, WP GET ATTRIBUTES and WP RESET ATTRIBUTES. For more information, please refer to the 4D Write Pro Attributes section.
Using a 4D Write Pro area

Managing documents in 4D Write Pro areas

In 4D applications, 4D Write Pro documents are created, imported, and exported by means of specific commands found in the 4D Write Pro theme (WP EXPORT DOCUMENT, WP EXPORT VARIABLE, WP Import document, WP New).

You can also associate a 4D Write Pro area with an Object field in a database form. This way, each 4D Write Pro document is automatically saved with the record and stored in the database’s data (see Storing 4D Write Pro documents in 4D Object fields).

.4wp document format

You can save and reopen 4D Write Pro documents to and from disk without any loss using the native .4wp format.

The .4wp format consists of a zip folder whose name is the document title and whose contents are HTML text and images:

- HTML text combines regular HTML with 4D expressions (which are not computed) as well as 4D-specific tags,
- images are stored in a folder with the same name as the document title, next to the HTML file.

Since .4wp documents are based on HTML, they can be imported or opened in any external application supporting HTML.

Note: The 4D Write Pro internal document format is a proprietary HTML extension, compatible with HTML5/XHTML5, but which supports its own subset of HTML/CSS attributes and tags, specified in this manual. As a result, only HTML documents exported by 4D Write Pro can be opened by 4D Write Pro without any risk of data loss. Importing HTML documents that were created externally could produce errors.

User interface

If the Context menu property is checked for a 4D Write Pro area (see Defining a 4D Write Pro area), a comprehensive context menu is available to users in the Application mode:

This menu offers access to all the 4D Write Pro user features.

Selecting the view mode

4D Write Pro documents can be displayed in one of three page view modes:

- **Draft**: draft mode with basic properties
- **Page** (default): “print view” mode
- **Embedded**: view mode suitable for embedded areas; it does not display margins, footers, headers, page frames, etc. This mode can also be used to produce a Web-like view output (if you also select the 96 dpi resolution and the HTML WYSIWYG option).
The page view mode can be configured by means of the area pop-up menu:

Note: The page view mode is not stored with the document.

For areas embedded in 4D forms, the view mode can also be set by default using the Property list. In this case, the view mode is stored as a property of the 4D Write Pro form object (for more information, please refer to the Configuring View properties paragraph).

Page view features

When the document is in Page view mode, the following document properties are displayed for the user:

- Page outlines to represent printing limits
- Page width and Page height (default: 21x29.7 cm)
- Page orientation (default: Portrait)
- Page margin (default: 2.5 cm)

In addition, new paragraph properties are available in the Paragraph... submenu:

- **Widow and orphan control**: When this option is checked for a paragraph, 4D Write Pro does not allow widows (last line of a paragraph isolated at the top of a page) or orphans (first line of a paragraph isolated at the bottom of a page) in the document. In the first case, the previous line of the paragraph is added to the top of the page so that two lines are displayed there. In the second case, the single first line is moved onto the next page.
- **Avoid page break inside**: When this option is checked for a paragraph, 4D Write Pro prevents this paragraph from being broken into parts on two or more pages.

You can also use the following commands found in the context menu:

- **Insert page break**: Adds a page break attribute at the cursor location. If any text is selected, it is replaced by the page break.
- **Document.../Page size**: Allows you to select a page size. Various standard page sizes are available.
- **Document.../Page orientation**: Standard orientation (Portrait/Landscape) property.

Note: When a document is in Embedded or Draft view mode, page properties can be set, even if their effect is not visible. In Draft view mode, the following paragraph property effects are visible:

- Page height limitation (lines drawn)
- Avoid page break inside property
- Widow and orphan control.

Handling headers, footers, and sections

4D Write Pro documents support headers and footers. These headers and footers are related to sections.

A section is a part of a document which is defined by a page range and can have its own paging and common attributes. A document can contain any number of sections (from just one, up to the total number of pages). Each page can only belong to one section.

You can define a set of headers and footers for each section.

Defining a section

A section is a subset of continuous pages in a 4D Write Pro document. A document can contain one or more sections. A section can contain any number of pages, from a single page to the total number of pages in the document.

By default, a document contains a single section, named **Section 1**. The 4D Write Pro contextual menu displays this section number wherever you click in the document:
You create a new section by adding a session break in the text flow:

When a section break has been added, the contextual menu displays an incremented number for each section. You can, however, rename any section:

The name you entered is then used as the section name everywhere in the document:

Note that if you have defined a different first page or different left/right pages for a section, the page type is also displayed in the menu (see below).

**Section attributes**

Sections inherit attributes from the document. However, common document attributes, including headers and footers, can be modified separately for each section. The contextual pop-up menu displays the properties and attributes available at the section level:
- Page orientation: allows you to set a specific page orientation (Portrait or Landscape) per section.
- Different first page: allows you to set different attributes for the first page of the section; this feature can be used to create flyleaves, for example. When this attribute is checked, the first page of the section is handled as a subsection itself and can have its own attributes.
- Different left and right pages: allows you to set different attributes for left and right pages of the section. When this attribute is checked, left and right pages of the section are handled as subsections and can have their own attributes.
- Header and Footer commands: these options allow you to define separate headers and footers. These options are detailed below.
- Margins / Paddings / Borders / Background: these attributes can be defined separately for each section. For more information on these attributes, please refer the 4D Write Pro Attributes article.

Inserting headers and footers

Each section can have specific header and footer. Headers and footers are displayed only when the document page view mode is Page.

Within a section, you can define up to three different headers and footers, depending on the enabled options:

- first page,
- left page(s),
- right page(s).

To create a header or a footer:

1. Make sure the document is in Page view mode.
2. Double-click in the header or footer area of the desired section and page to switch to editing mode.
   - The header area is at the top of the page:
   - The footer area is at the bottom of the page:

You can then enter any static contents, which will be repeated automatically on each page of the section (except for the first page, if enabled).
You can also insert dynamic contents such as the page number or the page count using the ST INSERT EXPRESSION command (for more information, please refer to the Inserting document and page expressions paragraph).

Once a header or a footer has been defined for a section, you can configure its common attributes using the contextual menu:

For more information on Margins, Paddings, Borders, and Background attributes, please refer the 4D Write Pro Attributes section.

You can remove the entire definition of a header or a footer (contents and attributes) by selecting the Remove header or Remove footer command in the contextual menu.

Compatibility

4D Write Pro handles headers and footers of documents converted from the 4D Write plug-in.

The following expressions and properties are also supported and converted from the 4D Write plug-in headers and footers:

- page number and page count variables
- distinct first page
- distinct left/right pages
Printing 4D Write Pro documents

4D Write Pro documents can be printed in two ways:

- As parts of 4D forms
- As independent documents

Printing documents in 4D forms

You can print 4D Write Pro embedded objects as part of any kind of 4D form (project, table, input, or output) using standard 4D printing commands such as PRINT SELECTION or PRINT RECORD.

The standard Print Variable Frame option is also supported(*) for 4D Write Pro areas, allowing you to manage size during printing. When this option is checked, the margins (outside and inside) and top border are only applied to the first page, and the margins (outside and inside) and bottom border are only applied to the last page. Pagination properties of the document are ignored: widow and orphan control is disabled and page breaks are not applied (these properties are only used for page rendering on screen, or for standalone printing of the document). When the Print Variable Frame option is selected, only objects located above the form area are printed. For more information about this option, refer to "Print Variable Frame" in the Design Reference manual.

(*) The Print object and Print form commands are not compatible with this option.

View mode for printing

Regardless of the View mode set for the 4D Write Pro area (see Configuring View properties), it is always printed as in the Embedded mode when you use a 4D printing command such as Print form. In this case, the following Appearance settings are not taken into account for the 4D Write Pro form objects: Page view mode (always "Embedded"), Show headers, Show footers, Show page frame (always "No"), Show hidden characters (always "No").

Example

The following example shows the effect of the Print Variable Frame option on a 4D Write Pro area embedded in the default output form. The following code is executed:

```
ALL RECORDS([Movies])
ORDER BY([Movies]Title)
PRINT SELECTION([Movies])
```

- Here is the result with the Print Variable Frame option unchecked (off):
Mountains of the world

<table>
<thead>
<tr>
<th>Name</th>
<th>Continent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Everset</td>
<td>Asia</td>
</tr>
<tr>
<td>Mont Blanc</td>
<td>Europe</td>
</tr>
<tr>
<td>Mount Everest</td>
<td>Asia</td>
</tr>
<tr>
<td>Mount Kilimanjaro</td>
<td>Africa</td>
</tr>
</tbody>
</table>

Mount Everest, also known in Nepal as Sagarmatha and in Tibet as Chomolungma, is Earth's highest mountain. It is located in the Himalaya mountain range in Nepal.[8][9] Its peak is 8,848 metres (29,029 ft) above sea level.[1] It is not the furthest summit from the centre of the Earth. That honour goes to Mount Chimborazo, in the Andes.[10] The international border between China and Nepal runs across Everest's precise summit point. Its massif includes neighbouring peaks Lhotse, 8,516 m (27,940 ft); Nuptse, 7,855 m (25,771 ft) and Changtse, 7,580 m (24,870 ft).
Printing independent documents

Starting with 4D v15 R5, 4D Write Pro includes printing features allowing you to print independent 4D Write Pro documents as well as to control standard printing options such as the format, orientation, or page numbers.

4D Write Pro commands

Basically, two commands handle the 4D Write Pro printing features: WP PRINT and WP USE PAGE SETUP.

- **WP PRINT** launches a print job for a 4D Write Pro document or adds the document to a current print job.
- **WP USE PAGE SETUP** modifies the current printer page settings based on the 4D Write Pro document attributes for page size and orientation.

Configuration notes:

- 4D Write Pro print commands are based on the new internal architecture designed for 64-bit versions of 4D. However, they are still supported in 32-bit versions, just not within print jobs launched with **OPEN PRINTING JOB** (see WP PRINT).
- On machines with Windows 7 or Windows Server 2008 R2, make sure that the Platform Update for Windows 7 has been installed so that the printing features are supported.

Regular 4D commands

The following 4D commands support 4D Write Pro printing features:

- **SET PRINT OPTION** and **GET PRINT OPTION**: All options are supported for 4D Write Pro documents printed by WP PRINT. For Paper option and Orientation option, you may find it more efficient to call **WP USE PAGE SETUP** in order to easily synchronize these attributes with the 4D Write Pro document settings. The Page range option (15) allows you to specify the page range to print.
- **PRINT SETTINGS**: Defines print settings for the current printer; if WP PRINT is called afterwards, it takes any print settings modified by means of the Print Settings dialog boxes into account (except for margins, which are always based on the 4D Write Pro document).
- **OPEN PRINTING JOB** and **CLOSE PRINTING JOB**: WP PRINT can be called between these commands in order to insert one or more 4D Write Pro documents into a single print job.
Filter expressions contained in a 4D Write Pro document

Overview

4D Write Pro documents can contain references to dynamic 4D expressions such as variables and fields, but also formulas, project methods, or 4D commands. These references are evaluated when the documents are displayed or printed. For security reasons, evaluation of dynamic expressions must be controlled by the developer to make sure that no inappropriate expression is used and that it will not generate any unexpected changes or side effects in the database. This prevents you from executing commands such as DELETE SELECTION or methods like “DeleteOrders”.

Note: Expressions can be inserted using the ST INSERT EXPRESSION command, or by editing 4D Write Pro documents with an HTML editor.

Support of standard 4D filtering feature

Starting with 4D v16, evaluation of 4D commands and project methods inserted in 4D Write Pro documents is now under the control of the regular 4D filtering option defined at the database level. This option is located on the Security page of the “Database Settings” dialog box:

![Database Settings Dialog Box]

By default in 4D, this option is Enabled for all, which means that commands and methods must be explicitly allowed; otherwise evaluation errors are returned. You can disable this filtering partially (for the Designer and the Administrator), or for all users. This option is used in the entire 4D database and controls all user formula evaluations. For more information about this option, please refer to the Design Reference manual.

When the option is enabled:

- users can only call commands belonging to the “formula compliant” list. This list is displayed in the right-hand part of the Formula editor:

![Formula Editor]

- users cannot execute any project method. Project methods that you want to allow in 4D Write documents must be explicitly declared using the SET ALLOWED METHODS command.

Whenever a “forbidden” 4D method or command is found during the evaluation of an expression in a 4D Write Pro document, the value is replaced by " #command_5#command_5 Error #command_5 48".

Example
You inserted the following expression in your 4D Write Pro document:

```
ST INSERT EXPRESSION(*;"WriteProArea";"Gender")
```

By default if the security option is checked, the `Gender` method will not be evaluated:

```
Dear # Error # 48 Smith,
If you execute the following code:

```
ARRAY TEXT(aTallow;1)
aTallow(1):="Gender"
SET ALLOWED METHODS(aTallow)
```
```
The `Gender` method will be evaluated and return a value:

```
Dear Mr. Smith,
```

**Compatibility**

This filtering was not enabled for 4D Write Pro documents in previous releases. If your 4D Write Pro documents were referencing 4D methods, they will no longer be evaluated once the database has been converted to 4D v16 or higher. "#command_5_command_5 Error #command_5 48" messages will be displayed instead. In this case, you need to add the methods to the approved list using the `SET ALLOWED METHODS` command.
Importing 4D Write documents

One of the main features of the new 4D Write Pro object is the ability to import and convert existing 4D Write documents. This will allow you to migrate applications that currently rely on the 4D Write plug-in.

Compatibility notes:

- Only 4D Write documents of the last generation (“4D Write v7”) are supported.
- Copying-pasting from a 4D Write document to a 4D Write Pro area is not supported for the moment. A 4D Write document can only be imported using 4D Write Pro language commands.

How to import a 4D Write document

4D Write Pro objects offer two ways to import 4D Write documents:

- For 4D Write files stored on disk, you use the WP Import document command,
- For 4D Write areas stored in BLOB fields, you use the WP New command.

For more information, please refer to the description of these commands.

Which properties will be recovered from 4D Write?

To facilitate your migration from the 4D Write plug-in to 4D Write Pro, we want to support as many 4D Write features as possible in 4D Write Pro objects.

This paragraph lists the 4D Write plug-in properties that are currently recovered in a 4D Write Pro area after an import using the WP Import document or WP New commands.

Note however that a few differences can be seen, which are not considered as bugs. This is due, for example, to the default font used in 4D Write Pro for bullets, or small conversions in the Underline type.

<table>
<thead>
<tr>
<th>Document info</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4D Write plug-in</td>
<td>4D Write Pro</td>
</tr>
<tr>
<td>Creation date &amp; time</td>
<td>Available</td>
</tr>
<tr>
<td>Modification date &amp; time</td>
<td>Available</td>
</tr>
<tr>
<td>Locked</td>
<td>Not available (use read-only object property)</td>
</tr>
<tr>
<td>Title</td>
<td>Available</td>
</tr>
<tr>
<td>Subject</td>
<td>Available (only plain text)</td>
</tr>
<tr>
<td>Author</td>
<td>Available</td>
</tr>
<tr>
<td>Company</td>
<td>Available</td>
</tr>
<tr>
<td>Notes</td>
<td>Available</td>
</tr>
</tbody>
</table>

Document view parameters
### Document parameters

<table>
<thead>
<tr>
<th>4D Write plug-in</th>
<th>4D Write Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>Not available</td>
</tr>
<tr>
<td>Language</td>
<td>Not available</td>
</tr>
<tr>
<td>Count of columns</td>
<td>Not available</td>
</tr>
<tr>
<td>Column spacing</td>
<td>Not available</td>
</tr>
<tr>
<td>Widows &amp; orphans</td>
<td>Not available</td>
</tr>
<tr>
<td>Default tab</td>
<td>Available</td>
</tr>
<tr>
<td>Leading tab</td>
<td>Not available</td>
</tr>
<tr>
<td>URL color</td>
<td>Not available</td>
</tr>
<tr>
<td>URL visited color</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### Document pagination parameters

<table>
<thead>
<tr>
<th>4D Write plug-in</th>
<th>4D Write Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page width</td>
<td>Available</td>
</tr>
<tr>
<td>Page height</td>
<td>Available</td>
</tr>
<tr>
<td>First page number</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>First page header &amp; footer are different</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Left &amp; right page header &amp; footer are different</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Page binding</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Opposite pages</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Page margins</td>
<td>Available</td>
</tr>
<tr>
<td>Header top margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Header bottom margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Footer top margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Footer bottom margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>First page top margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>First page bottom margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Header first page top margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Header first page bottom margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Footer first page top margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>Footer first page bottom margin</td>
<td>Available (starting with v16)</td>
</tr>
<tr>
<td>First page is right</td>
<td>Available (starting with v16)</td>
</tr>
</tbody>
</table>
Images

Compatibility notes:

- 4D Write Pro does not yet support absolute positioning for images in pages. Only inline images are supported and imported.
- In the 64-bit version of Windows, importing 4D Write documents that contain images having the Mac OS PICT format is not supported. If you want to import documents containing images of this type, you will first need to convert them to another format, or use a 32-bit version of 4D. Keep in mind that the PICT format is obsolete and must no longer be used (see Pictures in PICT format).

Character properties

<table>
<thead>
<tr>
<th>4D Write plug-in</th>
<th>4D Write Pro (span properties)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italic</td>
<td>Available</td>
</tr>
<tr>
<td>Bold</td>
<td>Available</td>
</tr>
<tr>
<td>Strikeout</td>
<td>Available</td>
</tr>
<tr>
<td>Underline</td>
<td>Available</td>
</tr>
<tr>
<td>Shadow</td>
<td>Available</td>
</tr>
<tr>
<td>Exponent (superscript or subscript)</td>
<td>Available</td>
</tr>
<tr>
<td>Capitals (uppercase or small uppercase)</td>
<td>Available</td>
</tr>
<tr>
<td>Font Family</td>
<td>Available</td>
</tr>
<tr>
<td>Font Size</td>
<td>Available</td>
</tr>
<tr>
<td>Text Color</td>
<td>Available</td>
</tr>
<tr>
<td>Text Back Color</td>
<td>Available</td>
</tr>
<tr>
<td>Underline Color</td>
<td>Available</td>
</tr>
<tr>
<td>Strikeout Color</td>
<td>Available</td>
</tr>
<tr>
<td>Shadow color</td>
<td>Available</td>
</tr>
<tr>
<td>User property</td>
<td>Not available</td>
</tr>
<tr>
<td>Spell checking (syntax &amp; grammar on or off)</td>
<td>Not available</td>
</tr>
<tr>
<td>Appearance</td>
<td>Not available</td>
</tr>
<tr>
<td>Style sheet</td>
<td>Not imported (styles are imported but style sheets are not available)</td>
</tr>
<tr>
<td>Feature</td>
<td>4D Write Pro</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Justification</td>
<td>Available</td>
</tr>
<tr>
<td>Interline</td>
<td>Available</td>
</tr>
<tr>
<td>Bullet</td>
<td>Available</td>
</tr>
<tr>
<td>Left margin</td>
<td>Available</td>
</tr>
<tr>
<td>Right margin</td>
<td>Available</td>
</tr>
<tr>
<td>Text indent</td>
<td>Available</td>
</tr>
<tr>
<td>Border line style</td>
<td>Available</td>
</tr>
<tr>
<td>Border line color</td>
<td>Available</td>
</tr>
<tr>
<td>Border back color</td>
<td>Available</td>
</tr>
<tr>
<td>Left border</td>
<td>Available</td>
</tr>
<tr>
<td>Right border</td>
<td>Available</td>
</tr>
<tr>
<td>Top border &amp; top inside border</td>
<td>Available</td>
</tr>
<tr>
<td>Bottom border &amp; bottom inside border</td>
<td>Available</td>
</tr>
<tr>
<td>Border spacing</td>
<td>Available</td>
</tr>
<tr>
<td>Style Sheet</td>
<td>Available</td>
</tr>
<tr>
<td>Tabulations</td>
<td>Available</td>
</tr>
</tbody>
</table>

**Hyperlinks**

<table>
<thead>
<tr>
<th>Feature</th>
<th>4D Write Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>URL link</td>
<td>Available</td>
</tr>
<tr>
<td>4D method link</td>
<td>Not available</td>
</tr>
<tr>
<td>Open document link</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**4D expressions**

<table>
<thead>
<tr>
<th>Feature</th>
<th>4D Write Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>4D expression</td>
<td>Available</td>
</tr>
<tr>
<td>Date &amp; Time</td>
<td>Available</td>
</tr>
<tr>
<td>HTML expression</td>
<td>Not available</td>
</tr>
<tr>
<td>RTF expression</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Text data**

<table>
<thead>
<tr>
<th>Feature</th>
<th>4D Write Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main text data</td>
<td>Available</td>
</tr>
<tr>
<td>Header text data</td>
<td>Not available</td>
</tr>
<tr>
<td>Footer text data</td>
<td>Not available</td>
</tr>
</tbody>
</table>
About 4D Write Pro objects

Using commands from the Objects (Forms) theme

Using commands from the Styled Text theme

Accessing document contents by programming

WP CREATE BOOKMARK
WP DELETE BOOKMARK
WP EXPORT DOCUMENT
WP EXPORT VARIABLE
WP GET ATTRIBUTES
WP Get bookmark range
WP GET BOOKMARKS
WP Get page count
WP Get paragraphs
WP Get pictures
WP Get range
WP Get selection
WP Import document
WP INSERT BREAK
WP INSERT DOCUMENT
WP INSERT PICTURE
WP Is font style supported
WP New
WP PRINT
WP RESET ATTRIBUTES
WP SELECT
WP SET ATTRIBUTES
WP USE PAGE SETUP

4D Write Pro Constants

4D Write Pro Attributes