



What's New



**ADVANCE
CAD
2021**



Table of Contents

WELCOME TO ADVANCE CAD 2021	4
NEW OPTIONS	5
New FIELD command.....	5
IMPROVEMENTS	6
SPELL command support with Czech	6
Dynamic Blocks	6
“MTEXT” editor	6
4K Screen Support	7
ePlot Standard Configuration	8

Welcome to Advance CAD 2021

GRAITEC is very pleased to present the latest version of Advance CAD 2021, part of the Graitec Advance Suite.

GRAITEC Advance CAD is a CAD software that works under the Windows operating system. It provides a simple user-friendly working environment for creating 2D drawings. A large selection of drawing and dimensioning tools allow the creation of simple, as well as complex drawings.

Version 2021 of Advance Design is enhanced with multiple improvements, bringing high benefits to the end user, and is articulated around few main subjects:

- **FIELD command** - multiline text element with a field that is updated automatically as the field value changes.
- **SPELL command working with Czech** – improvement for the “_SPELL” command.
- **Dynamic Blocks** – various improvements for the tool, including better grip manipulation, rotation, stretch, display and accurate properties parameters.
- **“MTEXT” editor** – various improvements for the current functionalities and added a new list creating command.
- **4k screen resolution** – ribbon and dialog placement improvements.
- **ePlot standard configurations** – allows the user to convert layouts and models into PNG, JPG, DWF6, DWFx, Web, Mobile, etc.

New Options

Advance CAD 2021 brings a new functionality which is described in this chapter.

New FIELD command

Main features & benefits:

- Adds a multiline text element representing a parameter value;
- The text updates automatically if the value changes.

Fields in text are used to display values that are expected to change during the creation of your project.

The latest information is displayed when a field is updated. For example, the value of the **PaperSize** field is the paper size currently set. If the paper size changes, the new size is displayed when the field is updated.

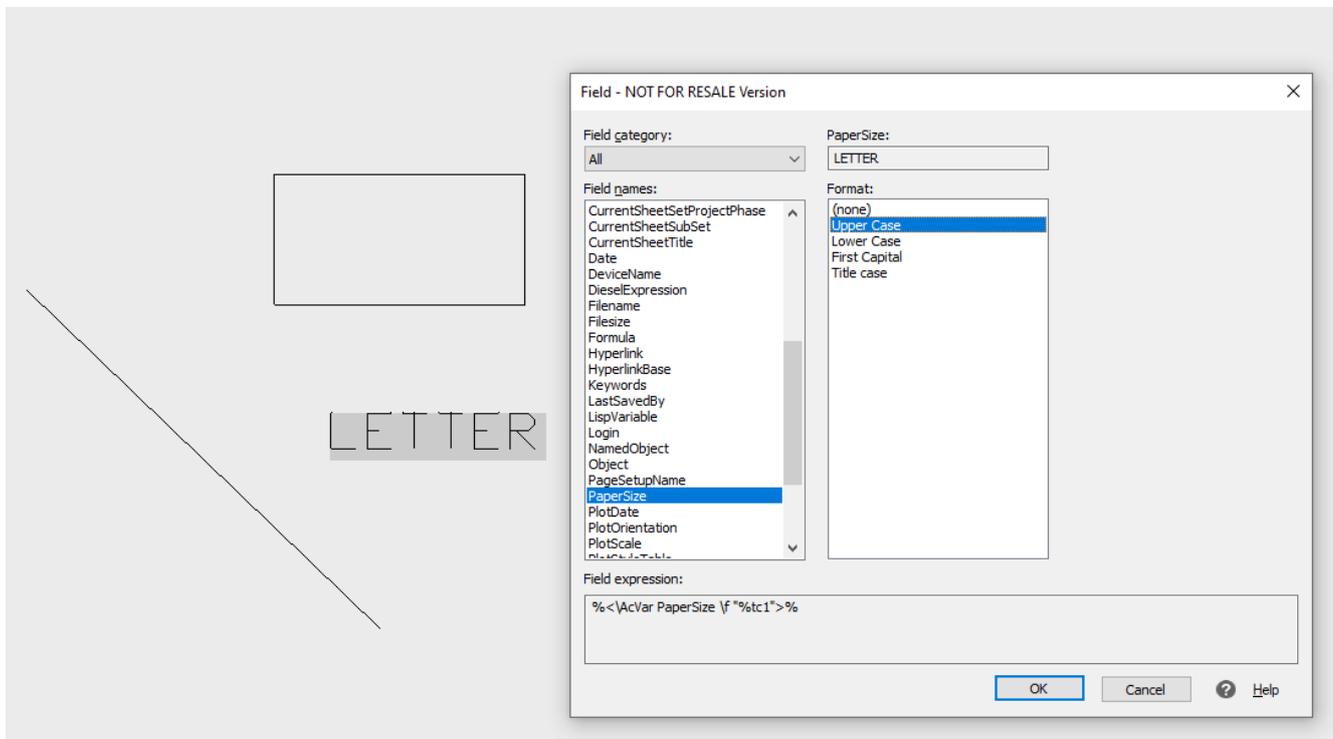


Fig. 1: Adding a PaperSize field in the model

Fields can be inserted in multiline text, table cells, attributes, and attribute definitions. Insert Field option is available by right clicking in any active text command.

There are two additional commands that are used with this tool:

- **FIELDDISPLAY** – turns the gray background of the field on or off.
- **FIELDEVAL** – controls how fields are updated.

Improvements

Advance CAD 2021 brings a set of improvements which are summarized in this document.

In this version we have focused on improving current functionalities and fixing defects for Dynamic Blocks and “MTEXT” editor. Additionally, the ribbon and dialogs placement has been updated for customers who are using 4K screens. Another major update is the addition of virtual printers that allow the user to convert his projects into PNG, JPG, DWF6, DWF6, Web, Mobile, etc.

SPELL command support with Czech

In Advance CAD 2021, we have added further support for using the Czech dictionary found in LibreOffice or OpenOffice. Use this tool to find and replace misspelled words in Czech, like you would in a Word document.

Dynamic Blocks

Major improvements and corrections have been included in this version, most notably:

- Properties dialog now displays only the current values for the selected block;
- Grip positions are no longer affected when manipulating the block;
- Rotating dynamic blocks doesn't affect their shape or grip positions;
- Dynamic Blocks are displayed correctly after using Audit/Recover;
- Stretching a block that is inserted will update its pattern correctly;
- The number list parameters are displayed correctly and can be interacted with for complex blocks;
- Blocks with different views are shown correctly;
- Added support for Centerline and Center Mark;
- Included further improvements for: Lookup, Stretch parameter, Rotate, GRIPDYNCOLOR, View Range;
- Property table displays all the necessary properties for complex blocks;
- Improved grip control on mirrored blocks;
- Improved performance for block parameter switching;
- Blocks can be aligned to other objects in a project with custom UCS.

“MTEXT” editor

For Advance CAD 2021 various changes and improvements have been made to the Multiline Text editor, for smoother and more flexible working scenarios for text inputting. Some of the improvements include:

- Edited text keeps its desired size;
- “Import text” option works correctly;
- Text styles and color can now be changed for all Font types;

- Improved grips for all text boxes;
- Text background is displayed correctly when the drawing background is black;
- Added list editing capabilities.

“**MTEXT**” editor now includes an additional system variable called “**MTEXTDETECTSPACE**”, which controls whether the spacebar is used to create list items.

There are two values which can be applied:

- 0 = Pressing Space does not create a formatted list item;
- 1 = Pressing Space creates a formatted list item.

With “**MTEXTDETECTSPACE**” active, entering a space after a letter, number, or symbol creates a list. For Example, entering “1. <SPACE> Context” will create a numbered list.

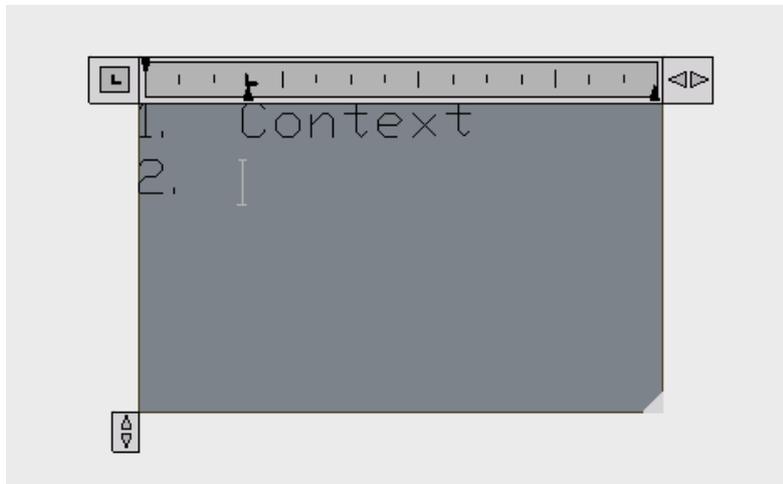


Fig. 2: Creating a list in the Multiline editor

To continue adding to the list, press **ENTER** at the end of each line.

To exit list entry, press **ENTER** twice at the end of the entry.

Even if **MTEXTDETECTSPACE** is off, you can still create lists by using the **TAB** key.

Additional options added include:

- Auto Bullets and Numbering – applies list formatting as you type;
- Allow Bullets and Lists – list formatting applies to all plain text in the multiline text object that looks like a list.

4K Screen Support

Further improvements for 4K screens have been added in Advance CAD 2021. The contents of DWG windows, tree views for eTransmit, Hatch dialogs, Lineweight dialogs, Layer state dialogs, Drawing control, Layouts control, Publish dialog, View control, Xref manager have been adjusted to high resolution settings.

ePlot Standard Configuration

With the new implementations, you can easily plot to DWF6, DWFx, PDF, Web JPG, Web PNG, custom PDF, different PDF quality, Web and Mobile by using the virtual printer drivers.

Just like for the other options, you can change the scale and size options:

- Paper Size;
- Plot Area;
- Plot Offset;
- Plot Scale.

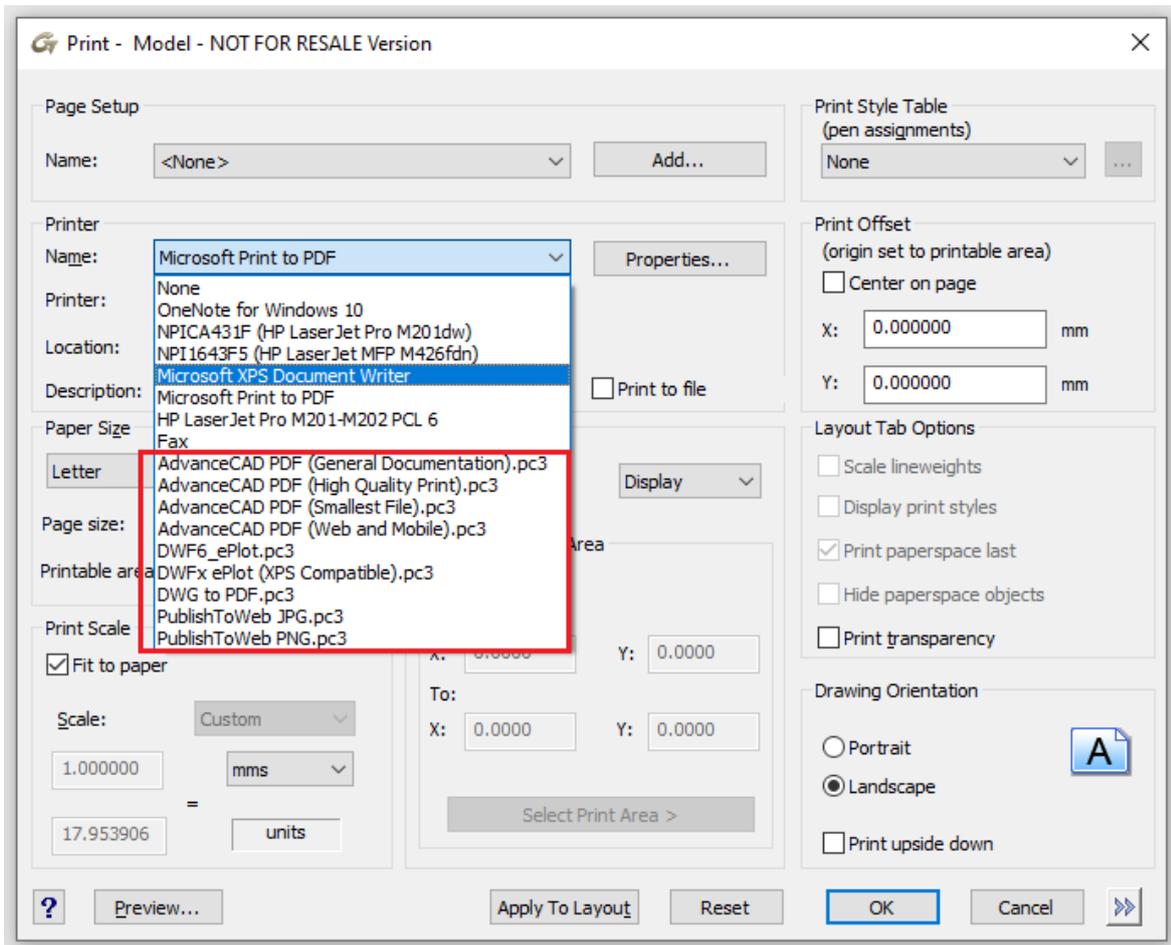


Fig 3: Selecting new plot options