# TUTORIAL PLOTTING FUNCTIONALITIES







# **Plotting Functionalities**

#### DESCRIPTION

Use the Plotting functionalities

#### GOAL

- How to define and edit a Plot box
- How to define or customize the plotting using the Layout Designer





#### **Output Menu - Plotting**

File	Home	View	Draw	Edit	Survey	Surfaces	Design 3D	) Imaging	X-se	ctions Cada	stral (	Cloud	X-live	Output	₽ Search	
		<u> </u>	_ <mark>.</mark>			A	-	-	4	-	4					
Add plot box	Plot box	Current view	Page setup	Layout designer	DWG/DXF	Start AutoCAD	Copy all to	Copy selection to	Paste from	Coords to command line	Settings	Object report				
Plotting			Export			AutoCA	D			Rep						

From **Output** menu it is possible to use the Plotting functionalities to set and print the data from graphic view using different settings







## **Plotting – Add Plot Box**

File	Home	View	Draw	Edit \$					
Add plot box	Plot box	Current view	Page setu	IP Layout designer					
		Plottir	ng						
Plot box parameters									
Name:		PlotBox	c1						
Scale:				1000					
Sheet ty	pe:	A3 (297	7mm x 420mm) 👻						
Width:				297mm					
Height:			420mm						
Externa	l margin:		10mm						
Rotation	1:		100.0000g +						
Plot box	layout:		Default (obsolete)						
Plot op	otions								
Draw bo	order			Yes •					
Print pro	oject name	•	Yes •						
Print da	te time		Yes •						
Show d	rawing are	a	Yes •						

From Output menu select **Add Plot Box** to set up that allows you to print a portion of the graphic view

From Plot box parameters it is possible to select the following contents:

- Plot box name
- Graphic scale
- Sheet type from default or select custom to enter width and height
- External margin
- **Rotation** (enter directly the value or select 2 point for the direction

From plot option it is also possible to enable/disable the **labels** for the current plot box





### **Plotting – Add Plot Box**

The arrow from the plot box represents the orientation of the plot box



Landscape



Portrait



# After creating the plot box, it is possible to select and edit it from the Properties menu

Plot box	^			
Name	PlotBox 1			
Visible	<b>v</b>			
Geometry	^			
E	-174.571m			
Ν	-110.936m			
Elevation	0.000m			
Rotation	0.0000g			

Size	^				
Width	420.000mm				
Height	297.000mm				
Margin	10.000mm				
Plot options	^				
Draw border	$\checkmark$				
Print project name	~				
Print date & time	~				





## **Plotting – Layout Designer**



Layout Desiger is the tool that allows to edit or define new and customized plot box.

It is possible to select **Layout Designer** directly from Output menu or from Plotting preview menu.

Plot box/ Current View > Change Plotbox Layout > Open Designer







#### **Layout Designer**

Des	ign													
	🔁 Delete				ົ 🔓 Add	D	D	D	D	D	-	I Paper size		ıĭ <b>−</b>
Now	Сору				-	A4	A4LAND	AO	AOLAND	A1	-	Drawing area	🇰 Grid	▲ Llear defined
New	💾 Save	Advanced	Basic	Minimal	↓ Lo Delete	(210mm x 297mm)	(297mm x 210mm)	(841mm x 1189mm)	(1189mm x 841mm)	(594mm x 841mm)	-	Interdicted area		fields
Plot box layout				Page layout				View		Fields				

From Plot Box Layout it is possible to use one of the predefined layout or select **New** empty plot box layout.

From the predefined layout it is possible to select: **Minimal**, **Basic** or **Advanced** with the possibility to customize it

t Name:	Date:		Notes:		Scale:	[Company header as image]	D:	[Text D]		Drawn by:	[Drawn by]
Project name]	[Dat	e time]	[Notes]		[Drawing scale]		C:	[Text C]		Controlled By:	[Controlled by]
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	Iai						A:	[Text A]		Notes:	[Notes]
[Company header as image]	Project Name: [Project name]				Sheet:	[Project header as image]	IS Project Name: [Project name]				
	Date:	Notes:		Scale:	- [Sh		Date:		Part name:	Project number/l	d: Scale:
	[Date time]	[Notes]		[Drawing scale]			[Da	te time]	[Part name]	[Project nur	mber][Drawing scale]
Basic	<u>,</u>				I	Adva	n	ced	I	1	1





### **Layout Designer – Define Fields**

		Edit plot box layout				e c	
Design							
New Delete Copy New Save Advanced Basic Minimal	□         □         □           ▼         ↓         ↓           ▼         ↓         ↓           ▼         ↓         ↓           ↓         ↓         ↓           ↓         ↓         ↓	C A4LAND (297mm x 210mm) (841mr	C C A0 A0LANE m x 1189mm ) (1189mm x 84	0 41mm) → → → → → → → → → →	per size awing area erdicted area	Close	
Plot box layout		Page layout			View	Close	^
			QQ52 -	roperties		l	<i>≖</i> × ^
				Field properties			
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as image]					Project name		
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			<				>
X 153mm, Y 258mm							

Select or add a **Plot Box** layout, then select a **Page Layout** or add a new page layout from DWG/DXF file.

It is possible to select the **Field** directly from the Graphic View, customize field and assign it for the current page layout.

Please note that the customizations are valid only for the current page layout.



#### Layout Designer – New Page Layout





From Plot Box Layout it is possible to fully customize the layout page. Select **New** to create new empty plot box layout.

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🔓 Add	Ľ	D	D		Ľ	-
Co Delete	A4 (210mm x 297mm)	A4LAND (297mm x 210mm)	A0 (841mm x 1189mm)	A0LAND (1189mm x 841mm)	A1 (594mm x 841mm)	*
			Page layout			

From Page Layout select **Add** to import a new page layout from a DWG/DXF

Add new page layout	×
File to import Select a DWG/DXF file to import	
File name:	<b>a</b>
Options	
Distance unit of the selected drawing: Apply to paper size:	Millimeters - ▲ A3 (297mm x 420mm) - С

Import a customized DWG/DXF file and select file options.

The page layout must be composed of Single Line Text entities or block attributes in order to be able to assign the related fields

Project Name:		
Scale:	Date - Time:	
Notes:		



# Plotting Preview – DXF/DWG Export

File	Home	View	Draw	Edit	F
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		Plotti	ng		
Plot dr	awing				
	_ <mark>₽</mark>	¢			A
Plot I	Page setup	Fit to	Change plotbo	Current	All pages

lavout

page

paper

Plot

From Output menu it is possible to use the **Plot Box** or **Current View** to open the Plotting Preview menu.

ACADEMY

From Plot Preview menu it is possible to **Exports** current page or all pages to **DXF/DWG** file







# **Plotting – Plotting Preview**

File	Home	View	Draw	Edit	F					
		드			C					
Add plot box	Plot box	Current view	Page setup	Layout designer						
		Plottin	g							
Plot drawing										
	_ <del>_</del>	¢								
Plot Pa	ge setup	Fit to paper	Change plotbox layout	Curren page	t All page					
		Plot		Export	DXF/DW0					
Plot box layou	t									
Settings										

Settings	
Plot box layout:	Default (obsolete)
Page layout size:	
Field name	Default (obsolete)
	Default (obsolete)
	Advanced
	Basic
	Custom A4
	Minimal
	OK Cancel

From Output menu it is possible to use the **Plot Box** or **Current View** to open the Plotting Preview menu.

From Plot Preview menu it is possible to select **Change Plotbox Layout** 

- From Plot Preview menu it is possible to select different layout style
- Default (Obsolete) Scale, Project Name, Date and Time
- Customized Minimal, Basic, Advanced
   Predefined field from Layout Designer
- Customized created from Layout Designer
   Customized field from Layout Designer





# **Plotting – Plotting Preview**

File	Home	View	Draw	Edit			
Add plot box	Plot box	Current view	Page setup	Layout designer			
Plotting							
Plot drawing							

Fit to

paper

Plot

Change plotbox

layout

Page setup

From Output menu it is possible to use the **Plot Box** or **Current View** to open the Plotting Preview menu.

From Plot Preview menu it is possible to **Plot** the preview, define **Page Setup**, **Fit** the drawing to current paper size or open **Plotbox Layout** 

age Setup	×	🖶 Print	×
	Annual An	General Select Printer	
Paper Size: A:	3 (297 x 420 mm)	Status: Ready Print to file Preferences Location: ITROE -Rome Comment: Find Printer	
Source: Au Orientation Portrait Landscape	Margins (inches) Left: 0.39 Right: 0.39 Top: 0.39 Bottom: 0.39	Page Range            All             Selection             Pages:               Pages:	
	OK Cancel	Print Cancel Apply	

Current All pages

Export DXF/DWG

page

Page Setup allows to define or edit the page settings

**Plot** allows to plots the priview and define the printer

