

## Adding Defined Properties to Labels

Before I jump into the workflow for adding Defined Property Sets (DPS) to labels, let's cover the basics.

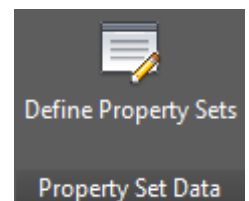
What is a Defined Property Set?

Properties or Property Sets have been in AutoCAD since the beginning. Object Layer, Colour, Linetype, line width are all property sets. We often overlook them because they come as part of the out of the box software.

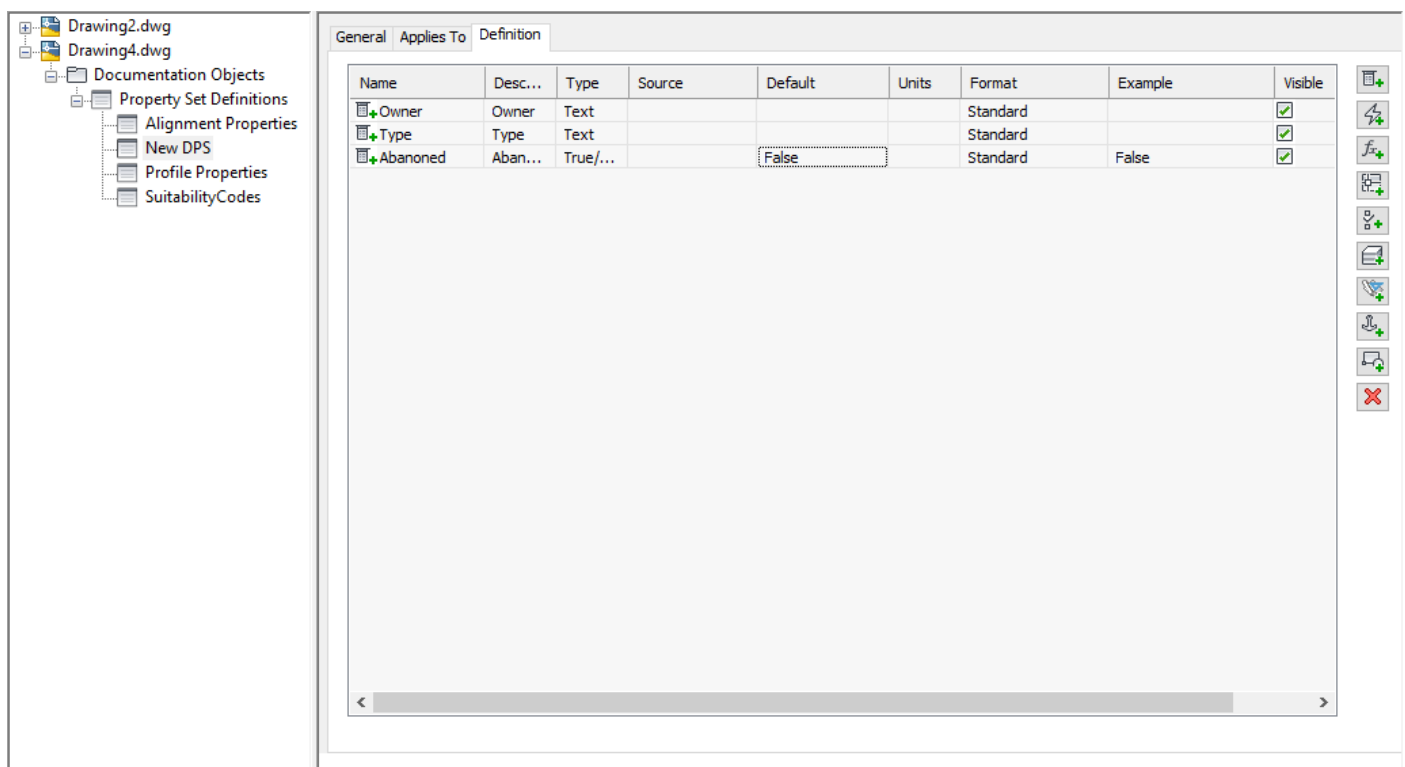
In recent years, and especially in AutoCAD Civil 3D, making our own Property Sets has become crucial in fulfilling BIM requirements.

A user created DPS can include all sorts of information, either manually generated, automatically extracted or linked to a list or database with the Map 3D functionality.

So how do you make a DPS? In earlier versions of AutoCAD Civil 3D these were made by opening the Style Manager from the command line. In newer versions from 2017 onward there is a button on the Manage ribbon.

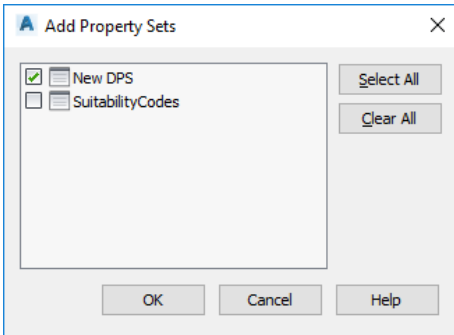
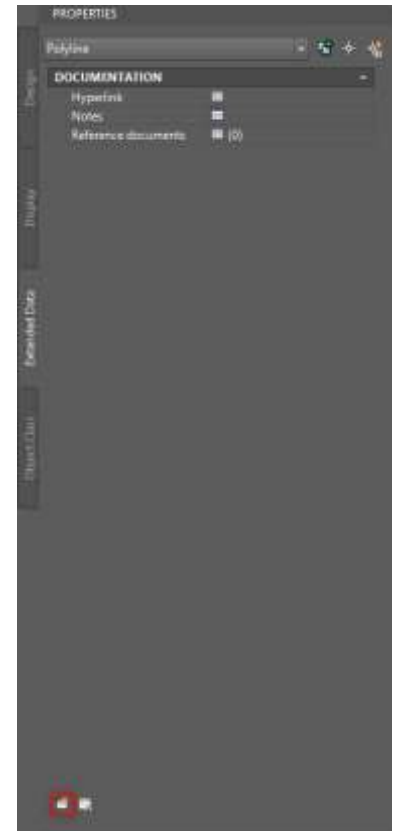


Create a New DPS under Document Objects, select what Civil 3D components it will be applied to and then define the property criteria, through the DPS options on the right.

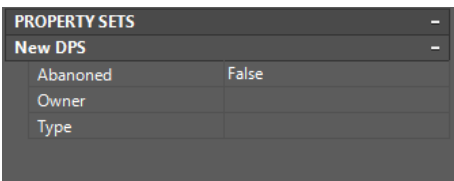


Applying your DPS to objects can be done in 2 ways, across the whole drawing using the command AECPSDAUTOATTACH and then selecting ON or individually.

Select the object to apply the DPS, from the Properties Panel, move to the Extended Data Tab. From the bottom of the panel click Add Property Sets and select the required DPS from the list.



The additional Property Set will now appear on the Extended Data tab.



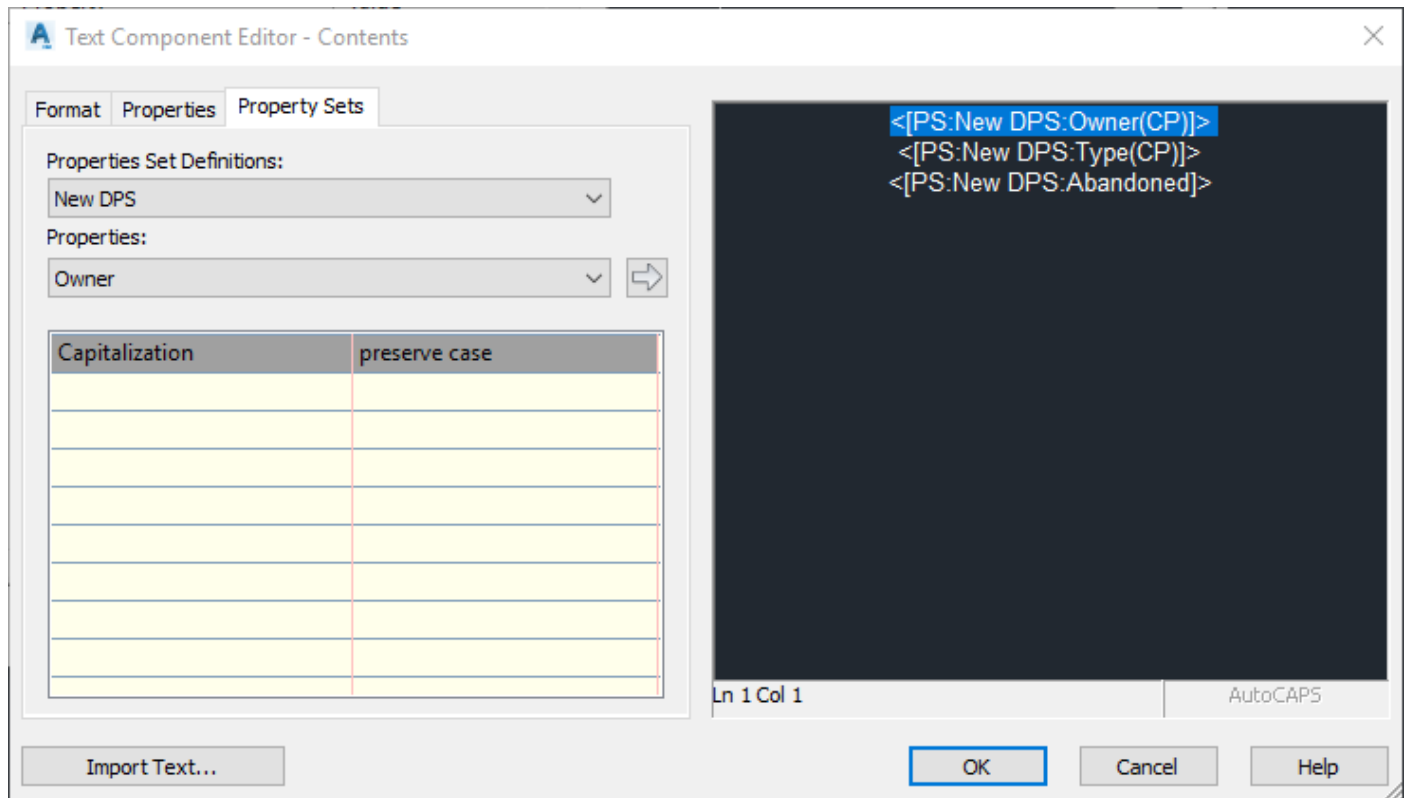
Now we have made a DPS and assigned it to an object, we include its contents as part of a Label Set.

From the Settings Tab select the relevant Label Style and either Create New Style or Copy and existing Style to Edit.

Edit an existing component or add a new one, to add the DPS select the 3 dots on Text Contents line to open the Text Editor.

Property	Value
<b>General</b>	
Name	Distance
Visibility	True
Used in	Label Mode
Anchor Component	<Feature>
Anchor Point	Label Location
<b>Text</b>	
Contents	<[General Segme...]
Text Height	2.50mm
Rotation Angle	000.000 (d)
Attachment	Top center
X Offset	0.00mm
Y Offset	-0.75mm
Color	BYLAYER
Lineweight	Bylayer

In AutoCAD Civil 3D 2018 there is now a Property Set tab, any DPS assigned to the relevant objects will be selectable from here.



In earlier versions, typing in the text matching the required DPS and contents will also work.

<[PS:PROPERTY DEFINITION NAME:PROPERTY SET]>

These are case sensitive and must match the DPS exactly.

