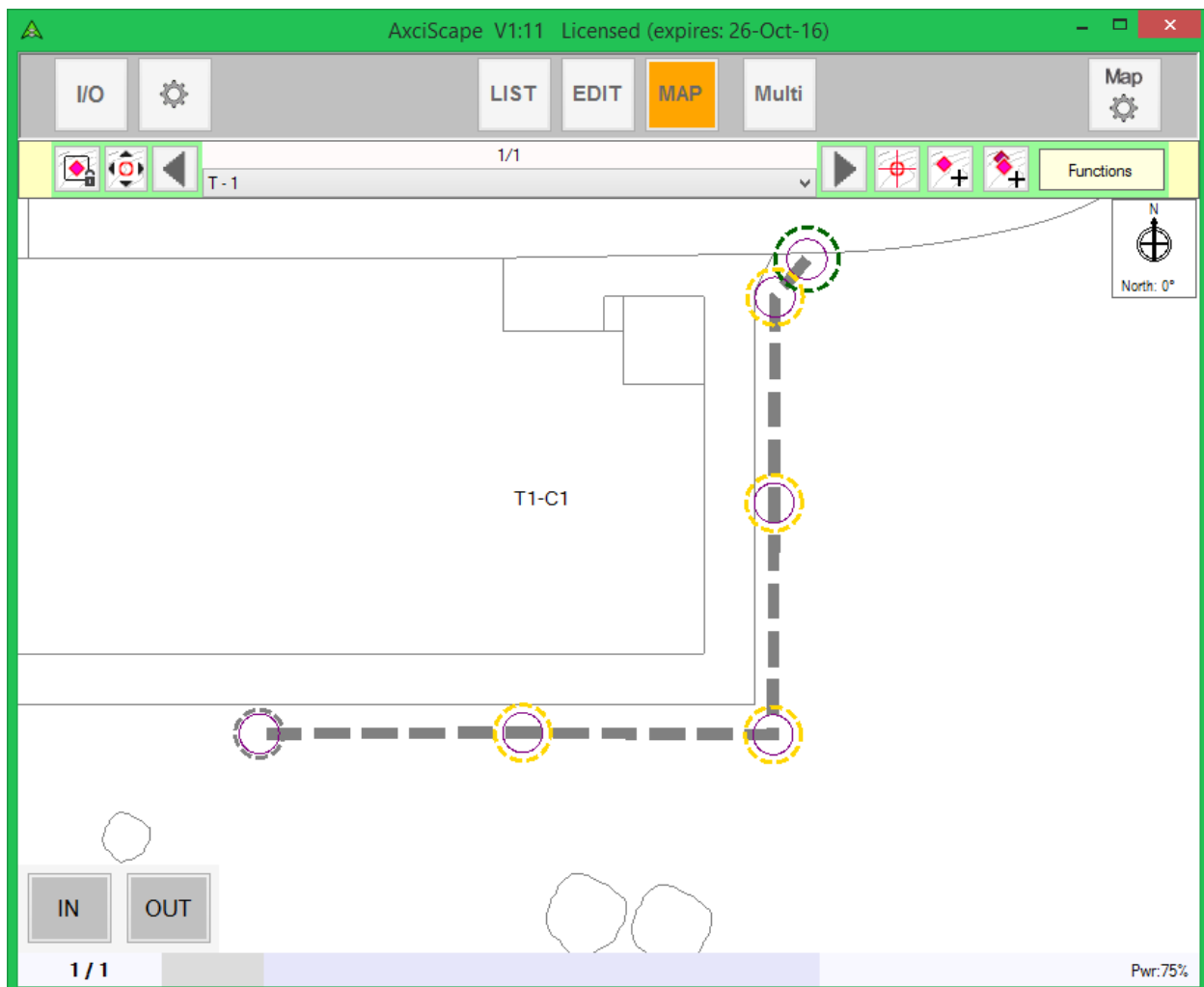# AxciScape Drawing Entities – Outline

OUTLINE

The Outline function draws a closed polyline (closed means the 1st vertice is joined to the last) around the objects map vertices.

The distance of the line from each vertice is defined in the usual way and can be a field value or an absolute number (e.g 6)!
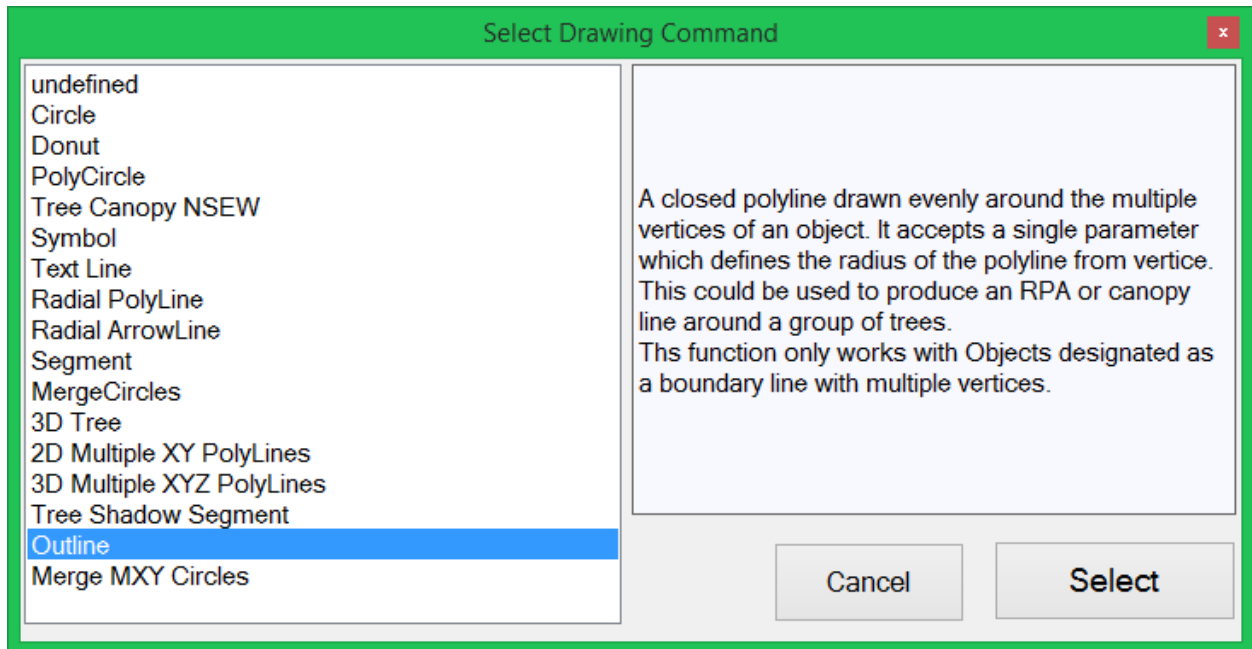
Outline only works with an object which has multiple vertices and which are shown as a boundary line.

For tree work, 'Outline' could be used to create an RPA line around a group of trees or a hedgerow. It could also be used to draw a canopy line.
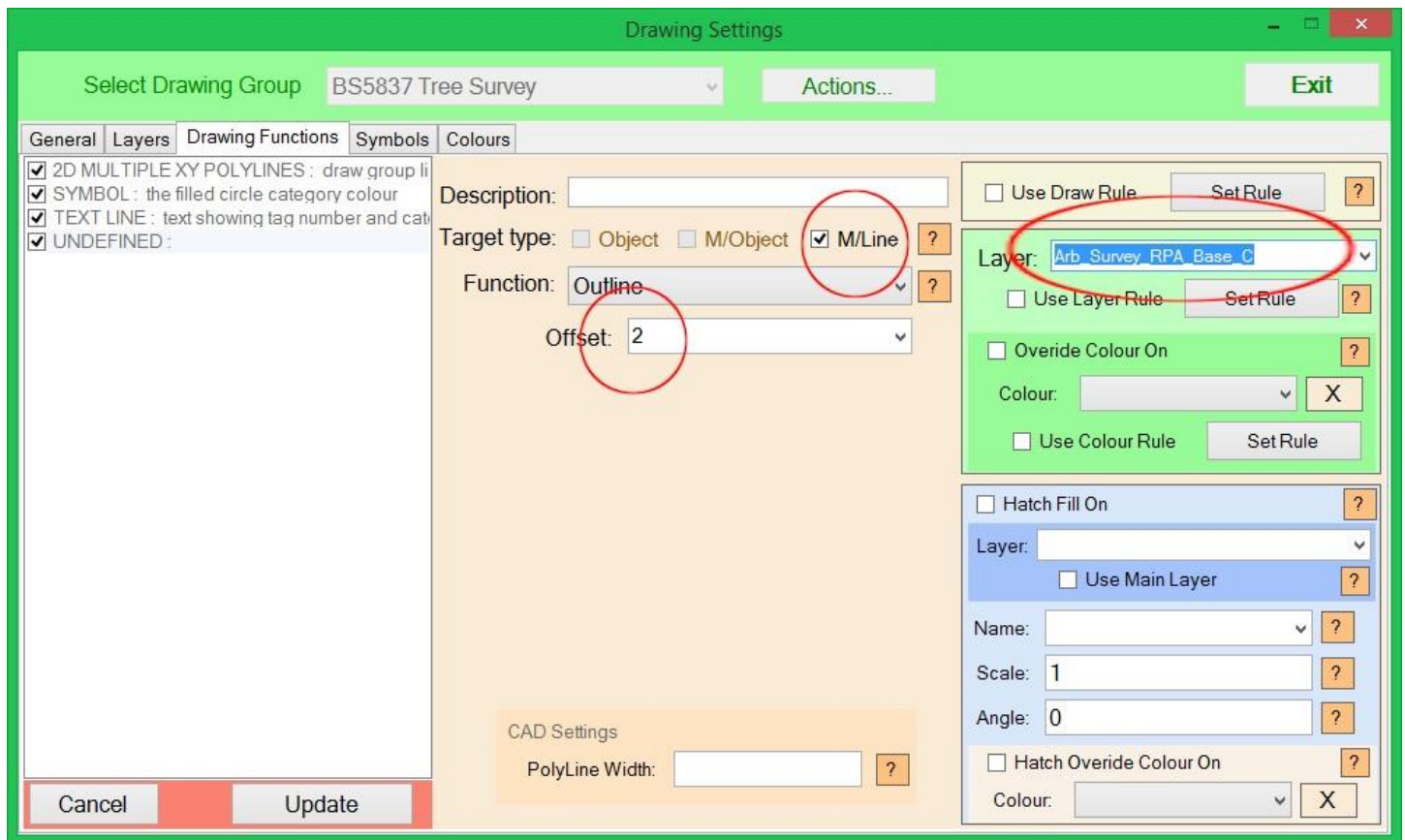
The following example uses an object plotted as an OPEN-ENDED line. It represents the centerline of a hedgerow and consists of 6 vertices. I am going to draw an outline around the hedge at a distance of 2m to represent say… a root protection zone.
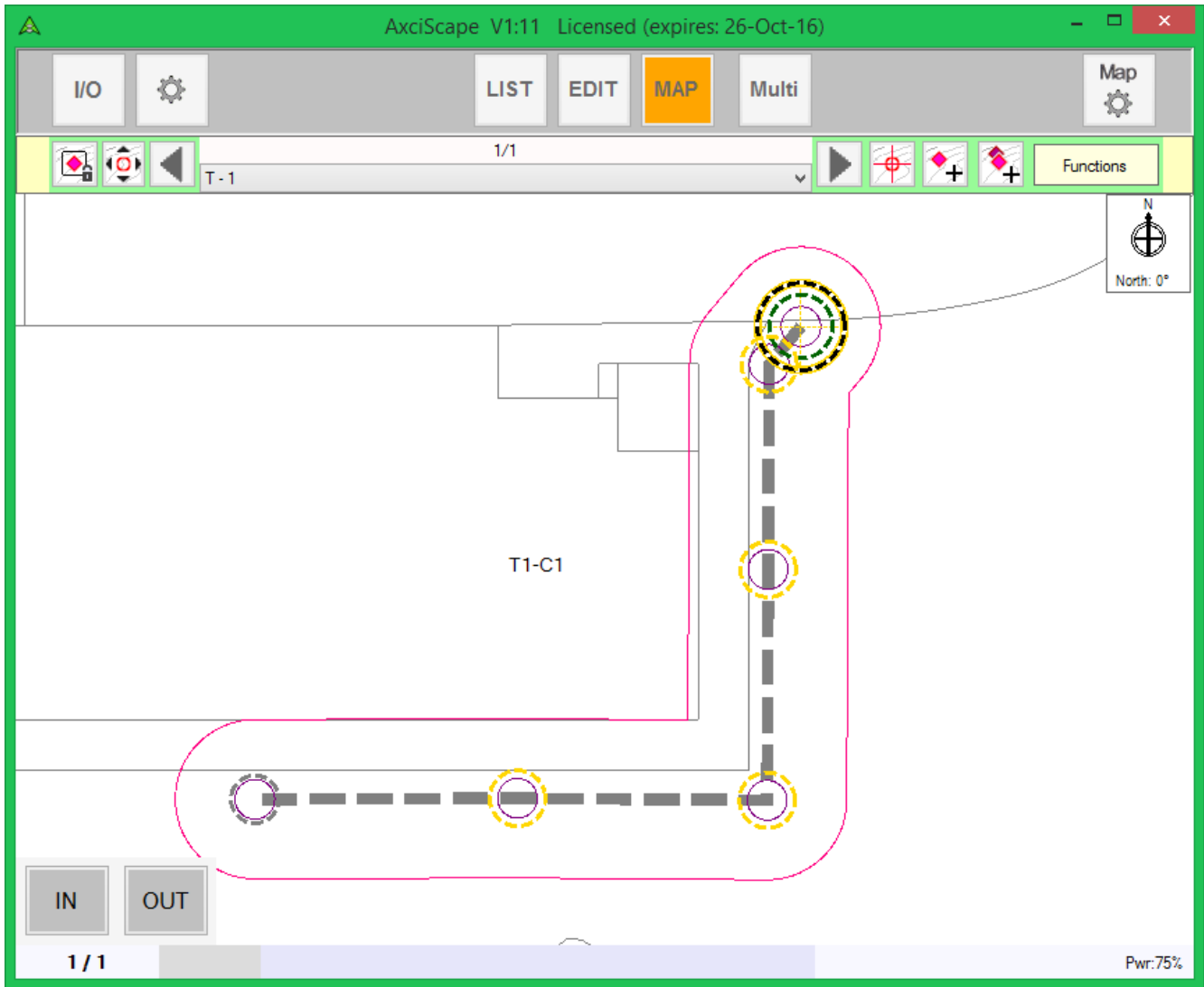
AxciScape

I enter the map settings window and ADD a new OUTLINE drawing function by selecting it from the menu.

Select Drawing Command

undefined
Circle
Donut
PolyCircle
Tree Canopy NSEW
Symbol
Text Line
Radial PolyLine
Radial ArrowLine
Segment
MergeCircles
3D Tree
2D Multiple XY PolyLines
3D Multiple XYZ PolyLines
Tree Shadow Segment
Outline
Merge MXY Circles

A closed polyline drawn evenly around the multiple vertices of an object. It accepts a single parameter which defines the radius of the polyline from vertice. This could be used to produce an RPA or canopy line around a group of trees.
Ths function only works with Objects designated as a boundary line with multiple vertices.
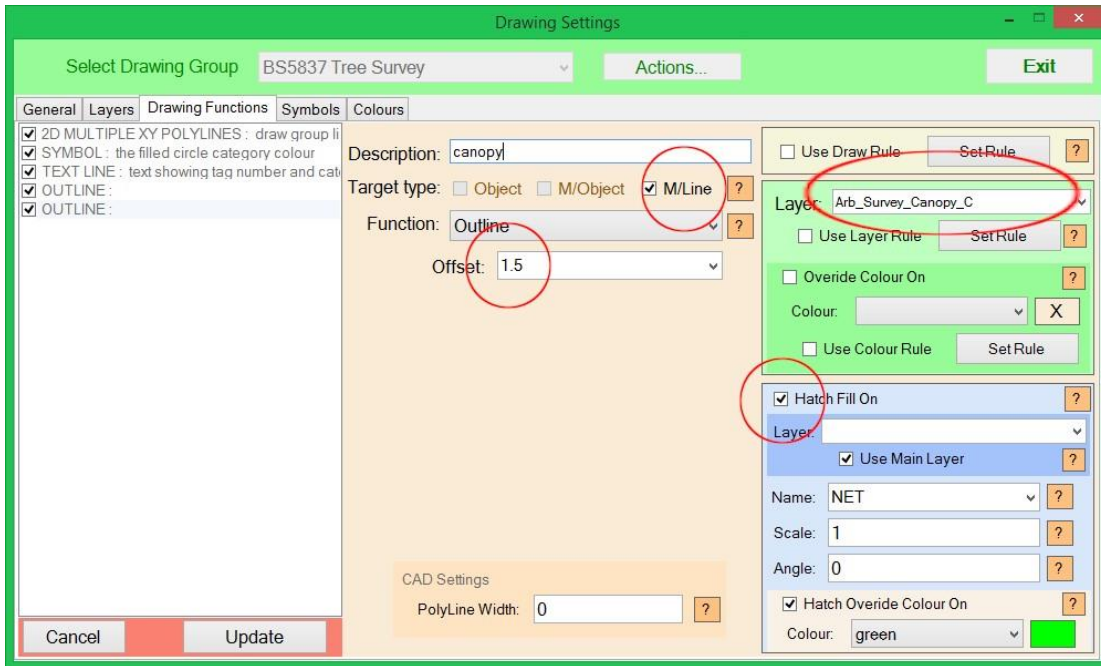
Cancel   Select

I now set my offset value to 2 and select the layer which I wish to use. The layer controls the outline colour which in this case is magenta (pinkish)!

Drawing Settings

Select Drawing Group   BS5837 Tree Survey   Actions...   Exit

General | Layers | Drawing Functions | Symbols | Colours

☑ 2D MULTIPLE XY POLYLINES : draw group li
☑ SYMBOL : the filled circle category colour
☑ TEXT LINE : text showing tag number and cat
☑ UNDEFINED :

Description:

Target type: ☐ Object ☐ M/Object ☑ M/Line ?

Function: Outline ?

Offset: 2

☐ Use Draw Rule   Set Rule ?

Layer: Arb_Survey_RPA_Base_C

☐ Use Layer Rule   Set Rule ?

☐ Overide Colour On ?

Colour: X

☐ Use Colour Rule   Set Rule

☐ Hatch Fill On ?

Layer:

☐ Use Main Layer ?

Name: ?

Scale: 1 ?

Angle: 0 ?

CAD Settings

PolyLine Width: ?

☐ Hatch Overide Colour On ?
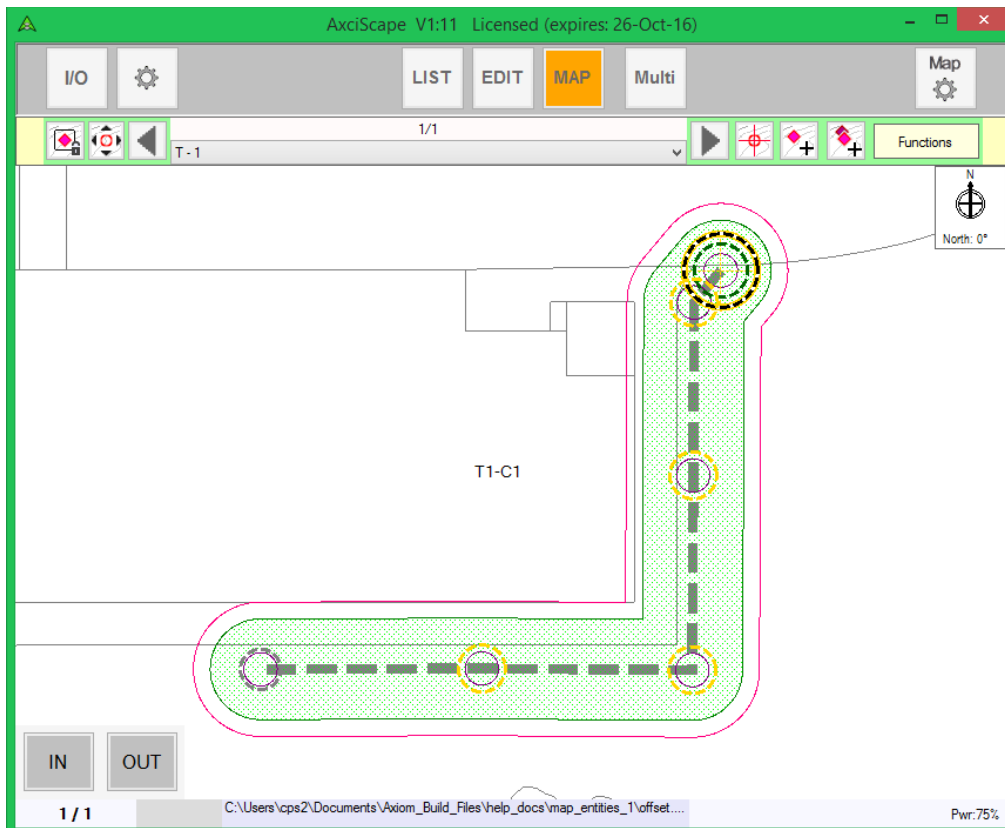
Colour: X

Cancel   Update

On returning to the map screen you can now see the outline drawn evenly around the group.

For fun I have created another Outline function, set the layer to use a tree canopy layer and given the offset a value of 1.5 to represent the hedge canopy. I have also set the hatch to be active based on the same layer but with a lighter green override.

And the results below.

Of course I could have used fields to generate the offset values. The RPA offset can be linked to the RPR calculation in the template and the canopy could use one of the NSEW fields.

When using offset lines it's important to think a head when plotting say a hedgerow on site. It would be best to just plot the centerline of the hedge and record the average canopy radius.

The above example used an open ended plotted line. When using a CLOSED line it works in much the same but again you need to think about what the line actually represents with regards to the group. To use RPA and Canopy outlines with a closed group you need to ensure your plotted line represents the limits of the tree stems and not say the canopy edge.

I have plotted an example 'closed line' below using the same settings as before.