Identifying High Rise Buildings using AddressBase™

Users might want to identify high-rise buildings within Cadcorp SIS Desktop and this can be achieved in multiple ways. This short document lists a couple of ways to do that.

Use a Spatial Expression

You could use a spatial expression to do a count on the number of dwellings on a particular coordinate. This assumes that all of your addresses are using the same coordinate reference if they are flats or high-rise buildings.

The expression is detailed below and this needs to be added to the dataset that you want to count, as either a new schema column or an annotation theme.

Iif(CalcInterior('Addressbase','',0)>10,"High Rise","")

This is a calcinterior, that's counting the number of points on top of itself, and then the Iif part of the statement is working out where there is more than 10 of these points, to give it a true label of "High-Rise" or if the response if false it gives it nothing.

The things you need to change:

- **Addressbase** – the name of the dataset you are counting
- **>10** – as an example, greater than 10 properties, but you can change this to whatever you see fit
- **"High Rise"** – True statement can be changed to something relevant
- **""** – False statement can be changed to something more relevant

This will then result in the following on the map:

Using a Spatial Expression that only picks out Residential Properties

This example is for when you know there are commercial properties that exist in the same building, but only want to identify whether a building has potential to be high rise because of the number of residential building points. Again, this assumes that your properties are all based on the same coordinate.

The expression for this is:

Iif(CalcInterior(Overlay("Addressbase",{classification$LIKE"RD*"}), "", 0)>10,"High Rise","")

Similar to before, we are using a calcinterior but we are also filtering out only those properties where the classification schema is Like RD, with the intention of picking up on all of the residential properties that it can find on the same coordinate. Things you will need to change:

- **Addressbase** – for the name of your data
- **Classification$** - the schema column identifying the property type
- **RD*** – could be changed to be specific, such as RD06 which are detached dwellings. Ordnance survey will have a list of all the classification points used within the properties
- **>10** – looking for all those where the number is over 10, but you may want to change this to something more appropriate
- **"High Rise"** – True statement can be changed to something relevant
- **""** – False statement can be changed to something more relevant

This produces the following results:

If required, you could remove the Iif from either of the expressions above to create a general count.

For example:

Iif(CalcInterior('Addressbase','',0)>10,"High Rise","") would become
CalcInterior('Addressbase','',0)

Which would result in: