

LSLIFF DATA FORMAT AND SAMPLE

LINZ supplies digital topographic vector data in LSLIFF format only.

Format

Start of File

RA *Coordinate Range* - this is the first entry in the file.

HI *History* - empty history entry indicates that modern IFF file is created

NS *new section* - this entry contains the identification string specified by the identification string parameter.

NO *New Overlay* - this entry takes the form: NO overlay-number. Only one overlay (layer) will usually be present in LINZ data

Object Output

NF *New Feature* – the feature serial number and internal sequence number are allocated numbers sequentially, starting at 1.

FS - *always follows the NF entry* - this entry takes the form: FS fc int2 int3 int4. Int2 to int4 will normally be zeros. The fc is an integer feature code used to indicate which class the object belongs to.

(Object code list)

AC - *Ancillary Code (or Attribute code)* follows the **FS** entry **(Object Attribute List)** It is followed by an integer giving the attribute type, a numeric value (integer or real), and may have a textual value enclosed in double quotes.

ST - *Coordinate String*

RO - *Rotation* may occur within text, orientation symbol, and is an angle in radians

EF - *End of Feature* - this must be present at the end of every feature.

End of File

EO - must be present at the end of every layer

EM – *End of Map*

EJ *End of Job (or file)* - this is the last entry in the file

An example of a Laser-Scan IFF Transfer Format

```
RA      2481000.000000 2485000.000000 5763000.000000 5767000.000000
HI
NS      IFF text file created by Translate
NO      44074256
NF      1 1
FS      85 0 16384 0
AC      1123 0 "Woodend"
AC      1056 0 "POPL"
ST      1 0
2482295.100000 5765386.400000
RO      0.000000
EF
NF      2 2
FS      9 0 0 0
AC      1002 0 " "
AC      1003 0 " "
ST      2 0
2481000.000000 5763845.341926
2481013.900000 5763844.200000
2481011.200000 5763812.300000
2481000.000000 5763813.222727
EF
EO
EM
EJ
```

Note: for point objects the 3rd number in the FS line is '16384'. It also has a corresponding RO entry further down.