System 1200 Newsletter – No. 50
Dxf Export

INTRODUCTION

The System1200 **Dxf Export** application program was introduced with SmartWorx v5.50 and as the name suggests, exports data within System1200 jobs to a dxf format.
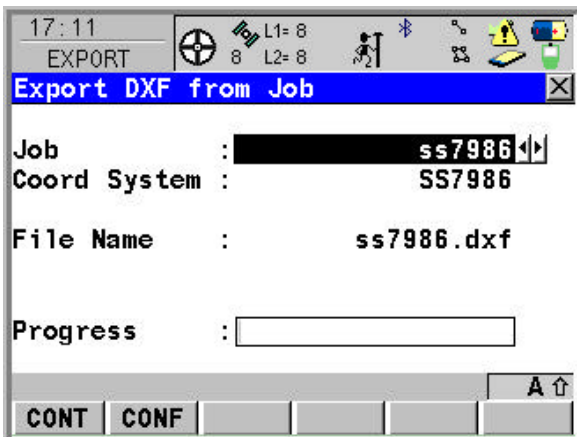
This newsletter describes the functionality of this powerful application program.

Remember that if additional functionality is required to convert System1200 data to dxf then this may be provided by **LGO** and the **GIS/CAD Export** module.
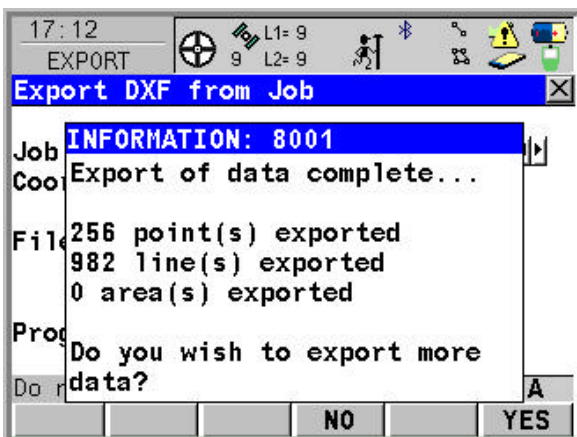
EXPORTING TO DXF FORMAT

Using the Dxf Export program is very simple.

Choose the job to be exported, change the suggested file name if necessary (remember to add the .dxf extension) and press **F1(CONT)**.

A progress indicator shows the progress - the .dxf file is saved to the **Data** directory of the CF card.

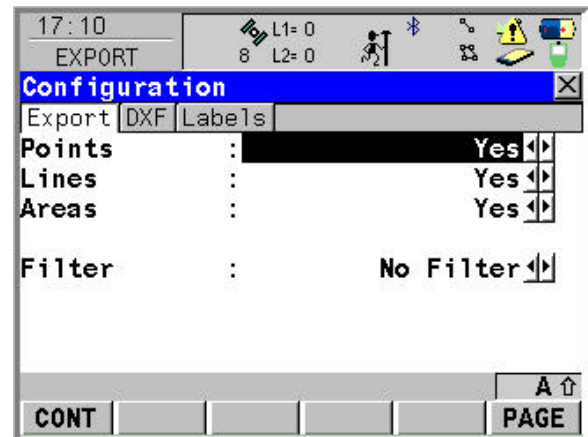Once the export is complete, information about the data which was exported is shown.

CONFIGURING THE DXF EXPORT

Press **F2(CONF)** to access the **EXPORT Configuration** panel.

This allows you to control a little more about what data and how it is exported to the dxf file.

EXPORT PAGE VIEW

In the **Export** page it is possible to configure what is exported from the System1200 job.
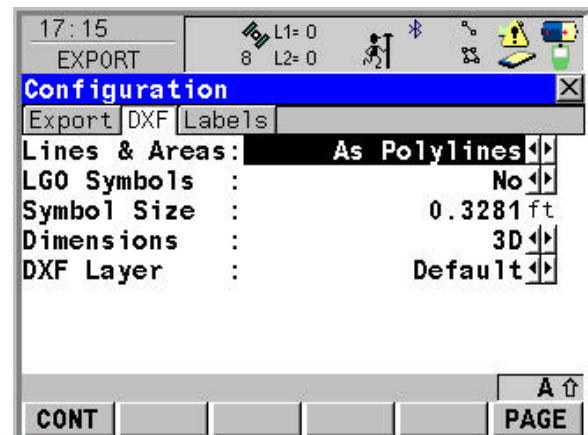

All System1200 newsletter readers are now experts in coding and surveying lines and areas – this page allows the user to define what objects should be exported to the dxf file.

Note the following:

– The line colour and thickness of lines and areas as surveyed in the field will be exported correctly to the dxf file

– Areas are exported to the dxf as closed lines. The shading is not exported

DXF PAGE VIEW

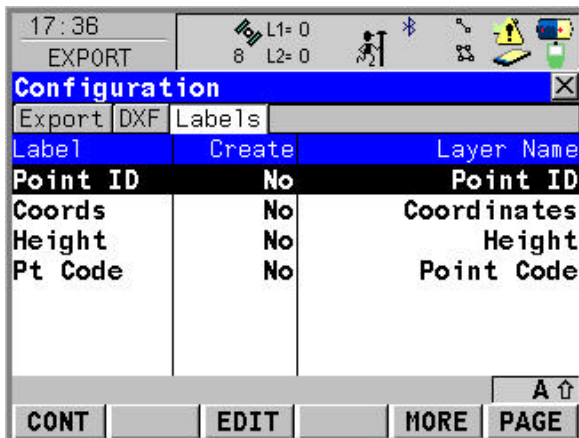In the **dxf** page the following can be configured.

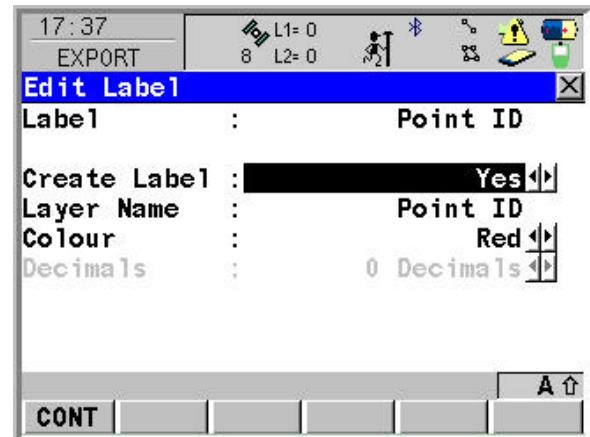- when it has to be right

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– **Lines & Areas**: Lines and areas can be exported **As Polylines** (one complete dxf line for each surveyed line and area object) or **As Lines** (separate chords between the points belonging to the line or area)

– **LGO Symbols**: This allows the standard System1200 / LGO point class symbols to be exported to the dxf file. The size of the exported symbol is defined at the **Symbol Size** prompt

– **Dimensions:** Defines whether the file is created as **2D** or **3D**

– **Dxf Layer:** Allows to define to which dxf layer the points, lines and areas are exported to.

  o **Default:** All point lines and areas are exported to the default layer

  o **Code Group:** A layer is created within the dxf file for each code group within the job – points, lines and areas are then exported to the relevant layers

  o **Codes:** A layer is created within the dxf file for each code within the job – points, lines and areas are then exported to the relevant layers

LABELS PAGE VIEW

In the **Labels** page the amount of detail to be exported related to each point can configured - this includes **Point ID**, **Coordinate**, **Height** and **Pt Code** information.

Press **F3(EDIT)** to edit the label settings.

– **Create Label:** This defines whether the label should be exported or not

– **Layer Name:** Defines to which layer the label should be exported. Labels can be exported to their own layer if desired

– **Colour**: The colour with which the label should be exported

– **Decimals**: The number of decimals which should be exported

SUMMARY

The Dxf Export application program is a powerful and useful routine for exporting directly to a dxf file "from the field".

It has a number of powerful configuration settings which allows the user to define what should be exported and how.

Please contact your local Leica representative if there are specific topics you would like covered in these newsletters.

We welcome all suggestions for TPS1200, GPS1200, specific applications or LGO. We look forward to receive your ideas.

- when it has to be **right**

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