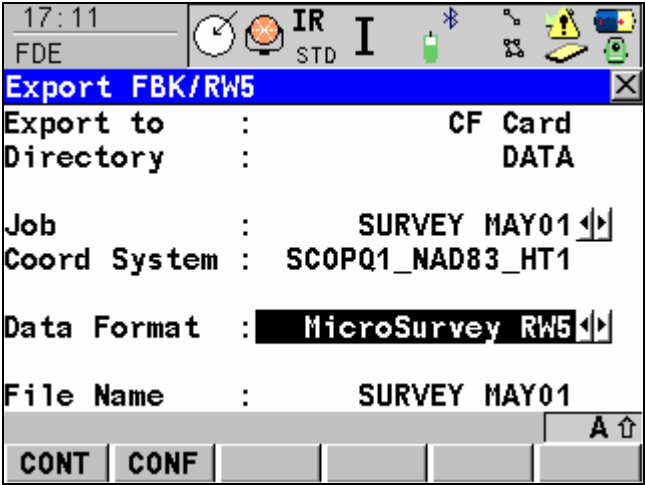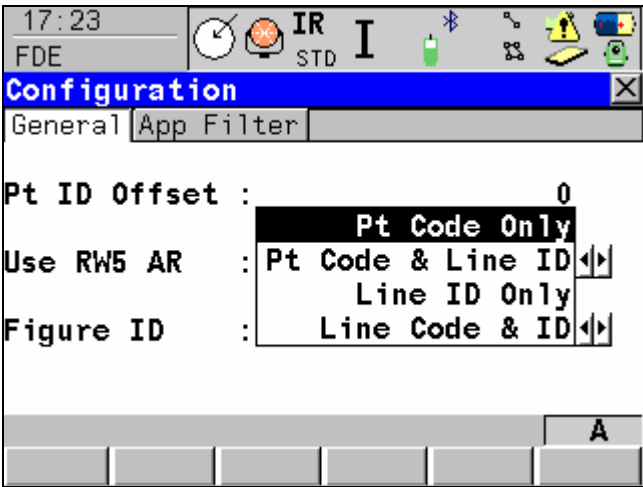# What's new FDE v5.10

Summary

The AutoMAP command from MSCAD (MicroSurvey) causes lines to be drawn connecting points in accordance with a system of prefixes which are added to the point descriptions. This way, you can gather data in the field, transfer the data to the computer, and have lines drawn immediately.

The way that the linework appears can be controlled in AutoMAP to allow placement of the lines on selected layers with the proper line or polyline drawn between the points.

The X, Z and period characters are used to control the linework.

Using the Line and Area objects as created on System 1200, the required character will be automatically added in front of the point description.
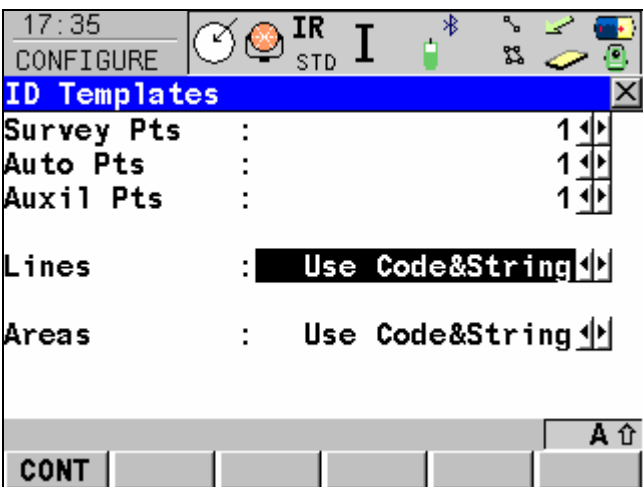
Item	Display

New data conversion type to export data following the MSCAD AutoMAP convention.
 	
The export is using existing lines measured with the linework options of System 1200.
 	
Supported linework are:
      Lines,
      Arcs,
      Splines
      and Areas.	

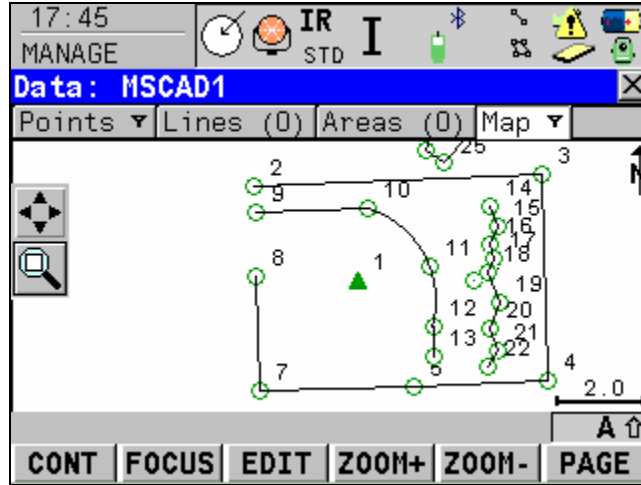| Item	Display
Figure identification will use the selected mode as defined in the Configuration menu.	

Below are the rules used to create the figure id.

Pt Code Only	The point code is used as the figure id.
Pt Code & Line ID	Point code and line id are joined together to form the figure id.
Line ID Only	The line id is used as the figure id.
Line Code & ID	Line code and line id are joined together to form the figure id.

Note: When planning to select an option using the line id, before performing the field survey operations, insure that the active line template is defined properly to fit your work preferences.

Alternately, one could select the "Code & String" line template, and define the option Figure ID to be "Line ID Only".	

For example, the following survey would generate the data shown below


```
SS,OP1,FP2,AR312.19578,ZE61.40091,SD3.179,--ZWALL1
SS,OP1,FP3,AR60.19450,ZE70.25549,SD4.529,--ZWALL1
SS,OP1,FP4,AR117.40574,ZE70.50583,SD4.612,--ZWALL1
SS,OP1,FP5,AR151.58240,ZE57.49333,SD2.867,--ZWALL1
SS,OP1,FP6,AR89.54078,ZE57.24581,SD2.813,--TREE
SS,OP1,FP7,AR220.56414,ZE62.41131,SD3.328,--ZWALL1
SS,OP1,FP8,AR271.33312,ZE52.54560,SD2.530,--WALL1
SS,OP1,FP9,AR303.14318,ZE58.01171,SD2.879,--ZFNC2
SS,OP1,FP10,AR8.47297,ZE43.41417,SD2.105,--ZFNC2
SS,OP1,FP11,AR79.39195,ZE44.45375,SD2.138,--XFNC2
SS,OP1,FP12,AR121.28362,ZE49.49250,SD2.356,--XFNC2
SS,OP1,FP13,AR134.59371,ZE55.20030,SD2.678,--FNC2
SS,OP1,FP14,AR60.47234,ZE63.25393,SD3.407,--ZEP3
SS,OP1,FP15,AR68.59168,ZE63.25452,SD3.409,--ZEP3
SS,OP1,FP16,AR74.51162,ZE61.01015,SD3.156,--XEP3
SS,OP1,FP17,AR80.47469,ZE61.26541,SD3.180,--XEP3
SS,OP1,FP18,AR86.57514,ZE60.08518,SD3.055,--XEP3
SS,OP1,FP19,AR99.06359,ZE62.17115,SD3.275,--XEP3
SS,OP1,FP20,AR110.10338,ZE61.54481,SD3.240,--XEP3
SS,OP1,FP21,AR116.24251,ZE64.21064,SD3.524,--XEP3
SS,OP1,FP22,AR123.24318,ZE64.21141,SD3.525,--EP3
SS,OP1,FP23,AR24.07186,ZE105.01333,SD4.584,--ZEP4
SS,OP1,FP24,AR28.25187,ZE112.12016,SD3.179,--ZEP4
SS,OP1,FP25,AR36.07014,ZE112.12424,SD3.178,--ZEP4
SS,OP1,FP26,AR38.01538,ZE105.20581,SD4.543,--ZEP4
SS,OP1,FP27,AR33.51475,ZE85.02594,SD6.243,--ZEP4
SS,OP1,FP28,AR38.08401,ZE84.56015,SD6.622,--EP4
```