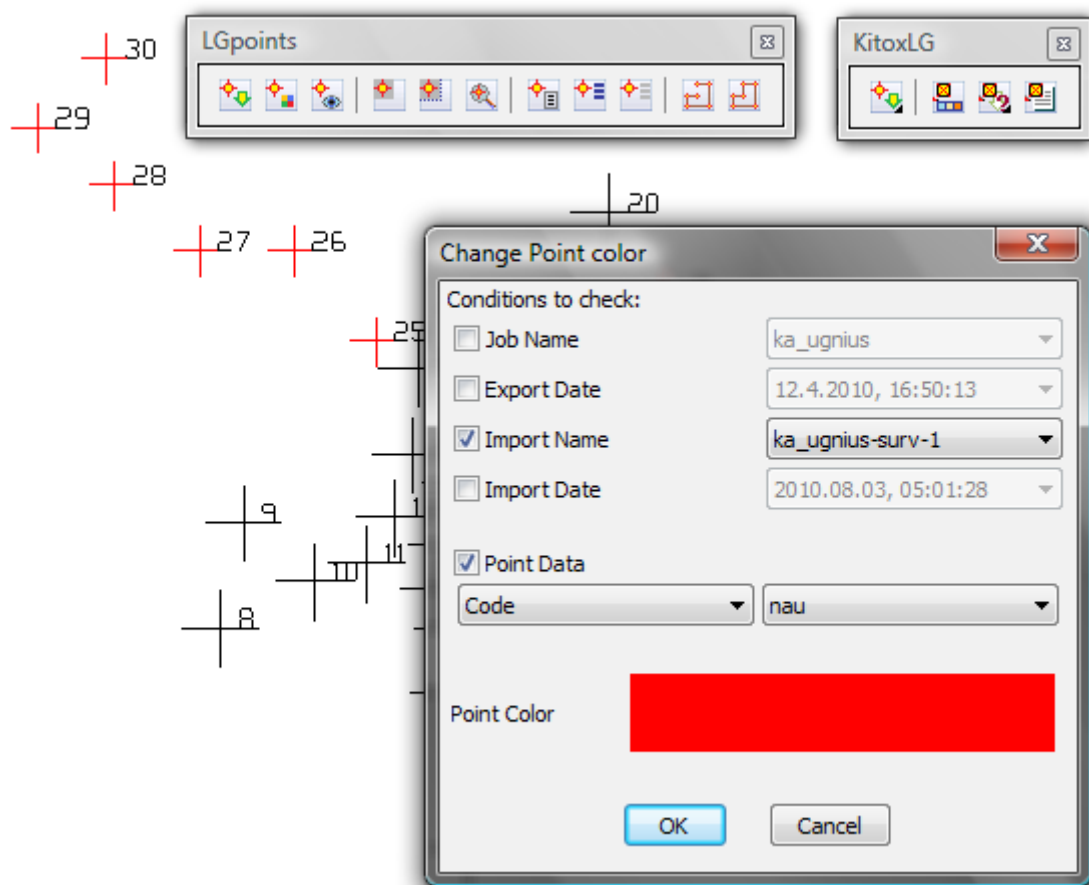


# KitoxLG User guide

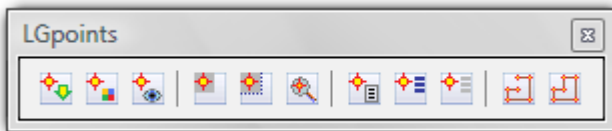
v1.0 – 2010.08.05

Application for survey data management in Bricscad and AutoCAD environment. Easy in learning, simple in action.



Download: <http://kitox.com/downloads/KitoxLG.zip>

## LGpoints toolbar



**Application for 3D point import from text file and point data management in Bricscad and AutoCAD environment.**

### **Point import**

Command for Point and Point data import from text file. Supports different text file formats, different delimiters (comma (,), semicolon (;), space, tab)

#### **Sample 1:**

*[JOB INFO]*

*Job name: ka\_ugnius*

*Export date (UTC): 12.4.2010, 16:50:13*

*Coordinate system: LKS94 Lithuania TM*

*Height system: Baltic*

*CSID: CSP\_LKS94\$ZNA\_LITHUANIA\_TM\CSV\_BALTIC\$*

*Transformation: Ltu / Lithuania 1994 / Baltic / LKS94 to WGS 84 (1)*

*Units: Meter*

*Delimiter: ,*

*[SURVEY POINTS]*

*Count: 100*

*Format:*

*Name, North, East, Hgt(ort), Description, Code, Attributes, SolutionType, HRMS, VRMS, PDOP, AntennaHeightTrue, AntennaHeightUser, BaseID, BaseName, BaseDistance, Sats, Epochs, OccupationTime, Refs, Date, Time*

*1,6137022.953,614559.266,177.225,<нет>,kel,<нет>,fix,0.01995,0.02891,1.91544,2.29055,2.00000,1,CMR(193.219.10.2:2101),0.0000,8,3,7,<нет>,"10.04.2010","12:47:55"*

*2,6137021.877,614562.821,177.182,<нет>,kel,<нет>,fix,0.01524,0.01503,1.78475,2.29055,2.00000,1,CMR(193.219.10.2:2101),0.0000,9,3,12,<нет>,"10.04.2010","12:50:30"*

*3,6137016.792,614561.612,176.451,<нет>,kel,<нет>,fix,0.01345,0.01557,1.79377,2.29055,2.00000,1,CMR(193.219.10.2:2101),0.0000,9,4,4,<нет>,"10.04.2010","12:51:03"*

*4,6137010.991,614560.406,175.540,<нет>,kel,<нет>,fix,0.00973,0.01310,1.78698,2.29055,2.00000,1,CMR(193.219.10.2:2101),0.0000,9,4,4,<нет>,"10.04.2010","12:51:18"*

*...*

#### **Sample 2:**

*12 nk 6139299.44 588181.21 129.10*

*13 nk 6139299.94 588186.72 129.39*

*14 nk 6139294.48 588187.18 129.57*

*245 nk 6139536.90 588054.47 130.20*

*246 nk 6139535.05 588050.05 130.18*

*298 nk 6139539.68 588053.31 129.99*

*71 mr 6139400.67 588177.41 130.87*

*72 mr 6139392.97 588184.96 130.69*

*73 mr 6139395.24 588190.70 130.85*

*74 mr 6139403.62 588189.84 131.55*

*75 mr 6139410.17 588183.90 131.80*

*...*

## Import dialog

**Import Points**

Data file  
C:\Users\Vaidas... \ka\_ugnius-surv-1.txt

Job Name / Export Date  
ka\_ugnius 12.4.2010, 16:50:13

Import Name / Import Date  
ka\_ugnius-surv-1 2010.08.05, 08:55:32

Select First Point line:

Coordinate system: LKS94 Lithuania TM  
Height system: Baltic  
CSID: CSP\_LKS94\$ZNA\_LITHUANIA\_TM|CSV\_BALTICS  
Transformation: Ltu / Lithuania 1994 / Baltic / LKS94 to WGS 84 (1)  
Units: Meter  
Delimiter: ,

[SURVEY POINTS]  
Count: 100  
Format: Name, North, East, Hgt(ort), Description, Code, Attributes, SolutionType, HRMS, VRMS, PDOP, Antenna  
1, 6137022.953, 614559.266, 177.225, <Š½ŠµŪ>, kel, <Š½ŠµŪ>, fix, 0.01995, 0.02891, 1.91544, 2.29055, 2.1  
2, 6137021.877, 614562.821, 177.182, <Š½ŠµŪ>, kel, <Š½ŠµŪ>, fix, 0.01524, 0.01503, 1.78475, 2.29055, 2.1

Configuration file  
C:\Program Files\InAxis\LG... \Javad.cfg

Format  
Name, North, East, Hgt(ort), Description, Code, Attributes, SolutionType, HRMS, VRMS, PDOP, AntennaHeight

Coordinates

North/South

East/West

Height

Precision

First Point

CAD Y

CAD X

CAD Z

Layer

Import dialog - Sample 1

**Import Points**

Data file

Job Name / Export Date

Import Name / Import Date

Select First Point line:

```

12 nk 6139299.44 588181.21 129.10
13 nk 6139299.94 588186.72 129.39
14 nk 6139294.48 588187.18 129.57
245 nk 6139536.90 588054.47 130.20
246 nk 6139535.05 588050.05 130.18
298 nk 6139539.68 588053.31 129.99
71 mr 6139400.67 588177.41 130.87
72 mr 6139392.97 588184.96 130.69
73 mr 6139395.24 588190.70 130.85
74 mr 6139403.62 588189.84 131.55
75 mr 6139410.17 588183.90 131.80
76 mr 6139412.45 588177.22 131.77
132 mr 6139440.07 588139.44 131.36

```

Configuration file

Format

Coordinates		First Point	
North/South	<input type="text" value="North"/>	CAD Y	<input type="text" value="6139299.44"/>
East/West	<input type="text" value="East"/>	CAD X	<input type="text" value="588181.21"/>
Height	<input type="text" value="Height"/>	CAD Z	<input type="text" value="129.10"/>
Precision	<input type="text" value="2"/>	Layer	<input type="text" value="0"/>

Import dialog - Sample 2

## **Import dialog options**

### **Data file**

Select data file. 'Edit' button opens selected data file using Notepad. If you have Format description line in data file, just copy to clipboard and paste into 'Format' field after.

### **Job Name / Export Date**

You can add comments into. Job Name and Export Date will be saved additionally to other point data in the drawing.

### **Import Name / Import Date**

These field are filled automatically, but you can edit them. Import Name is the same as Data file name. Import Name and Import Date will be saved additionally to other point data in the drawing.

### **Select First Point line**

Data file may contain additional information (see Sample 1). Application requires selection of First Point line to read.

### **Configuration file**

You can chose and save settings for different data file formats. Configuration saves next data: Format, First Point line number, CAD X, CAD Y and CAD Z items.

### **Format**

This field is to set Point data Format, dependent on Data file Format. Free tag names (point data field descriptions) available. You can use different delimiters for tags (comma (,), semicolon (;), space, tab). NB! The number of tags in 'Format' field must match number of Point data fields in Data file.

### **Coordinates**

Select tags from Format list for North/South, East/West directions and Hight. First Point's CAD X, CAD Y and CAD Z fields are for visual control how Data file is translated.

### **Precision**

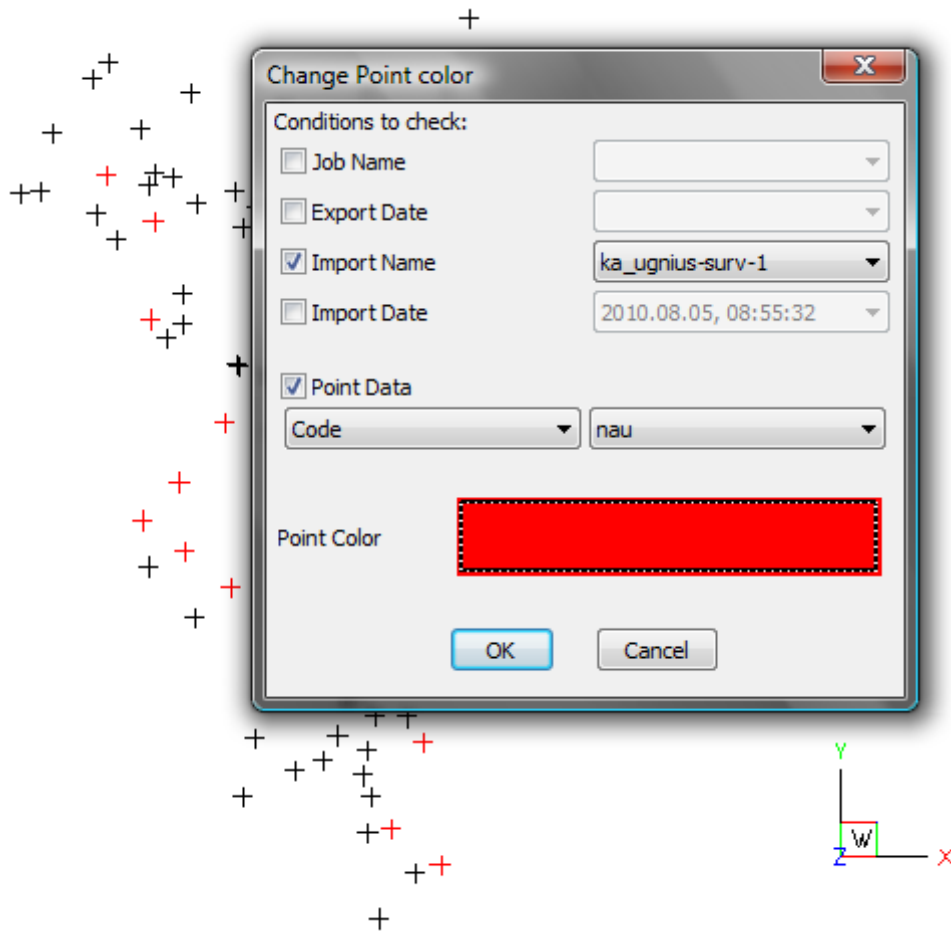
Set import precision for Point coordinates. Coordinates will be rounded mathematically (1.234->1.23; 2.345->2.35)

### **Layer**

Set layer for Points. If not exists, new layer will be created automatically.

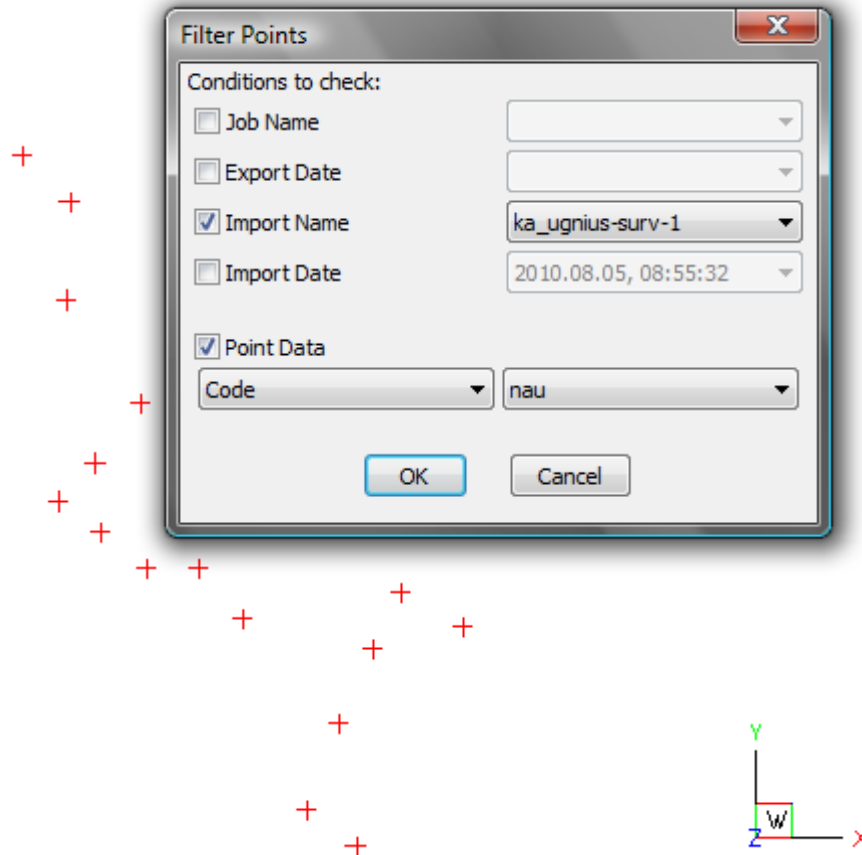
## **Change Point color**

Select conditions and Point data to change Point color by filter.

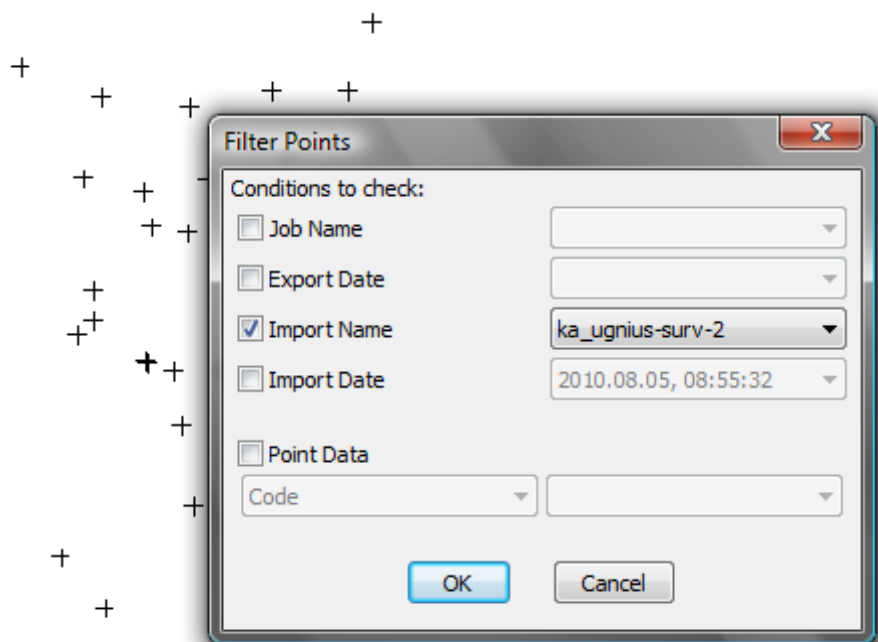


## Filter Points

Select conditions and Point data to filter Points.



Filtering by Import Name and Code='nau'



Filtering by Import Name only

## **Show/hide all Points**

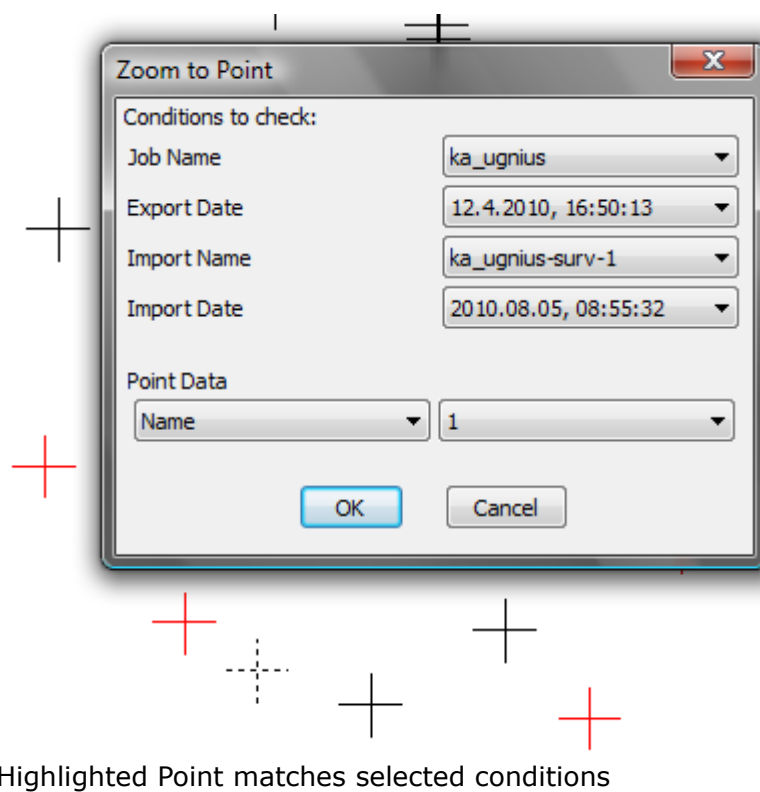
Toggle to show and hide all imported Points.

## **Show selected Points**

Command to show only selected Points.

## **Zoom to Point**

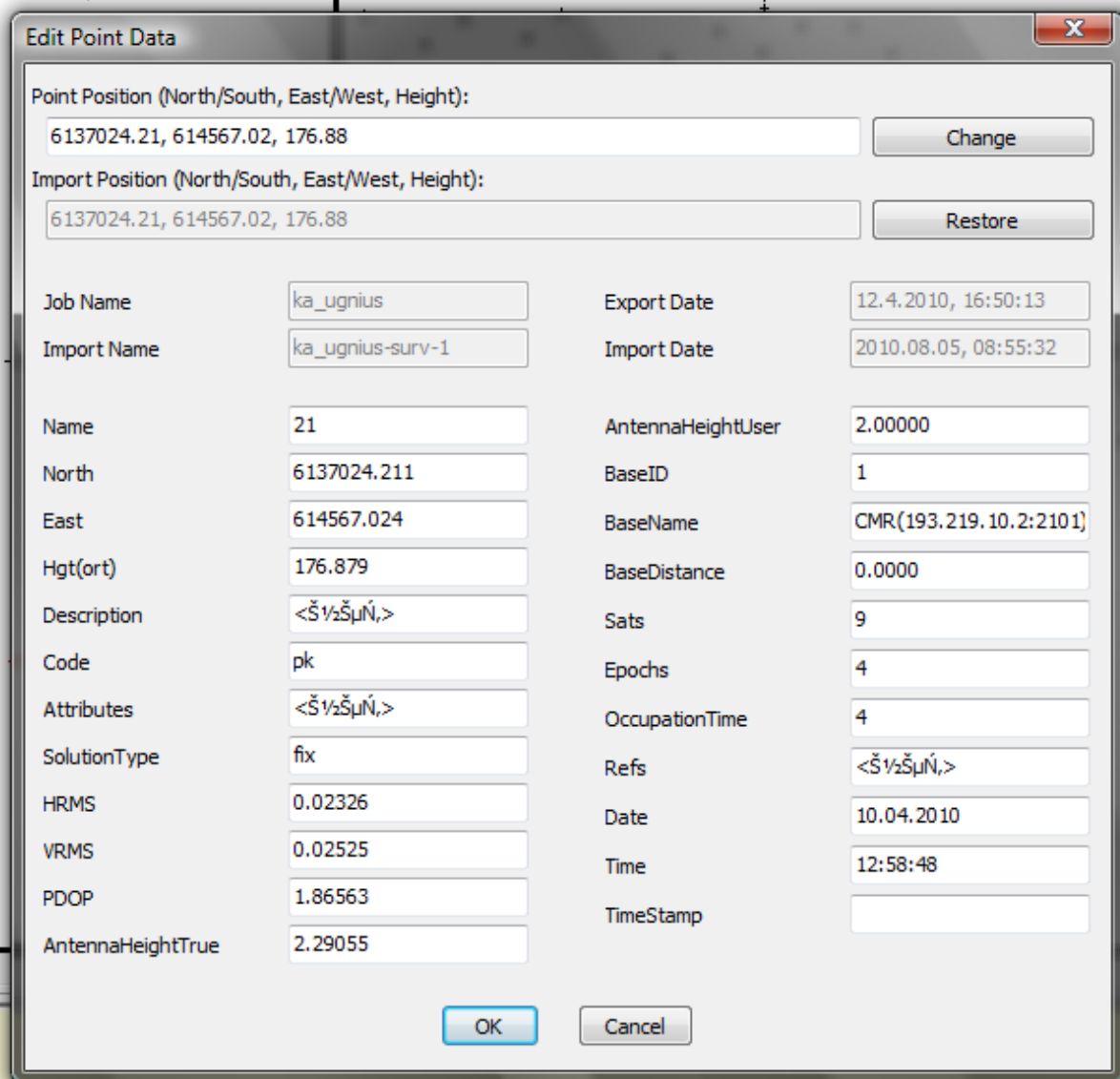
Command to find required Point by filter. If several Points matches selected conditions highlighting will be applied. To remove highlighting use REGEN command.





## Edit Point data

Command to check and edit selected Point's data. It is possible to change Point position manually or restore to Import position after changes. Point data table contains all data fields from Import. Table layout depends on data quantity (see samples below).



Point Position (North/South, East/West, Height):			
6137024.21, 614567.02, 176.88			
<input type="button" value="Change"/>			
Import Position (North/South, East/West, Height):			
6137024.21, 614567.02, 176.88			
<input type="button" value="Restore"/>			
Job Name	ka_ugnius	Export Date	12.4.2010, 16:50:13
Import Name	ka_ugnius-surv-1	Import Date	2010.08.05, 08:55:32
Name	21	AntennaHeightUser	2.00000
North	6137024.211	BaseID	1
East	614567.024	BaseName	CMR(193.219.10.2:2101)
Hgt(ort)	176.879	BaseDistance	0.0000
Description	<Š½ŠµŃ,>	Sats	9
Code	pk	Epochs	4
Attributes	<Š½ŠµŃ,>	OccupationTime	4
SolutionType	fix	Refs	<Š½ŠµŃ,>
HRMS	0.02326	Date	10.04.2010
VRMS	0.02525	Time	12:58:48
PDOP	1.86563	TimeStamp	
AntennaHeightTrue	2.29055		

Point Data table - Sample 1

**Edit Point Data** [X]

Point Position (North/South, East/West, Height):

Import Position (North/South, East/West, Height):


Job Name

Export Date

Import Name

Import Date


No

Code  

North

East

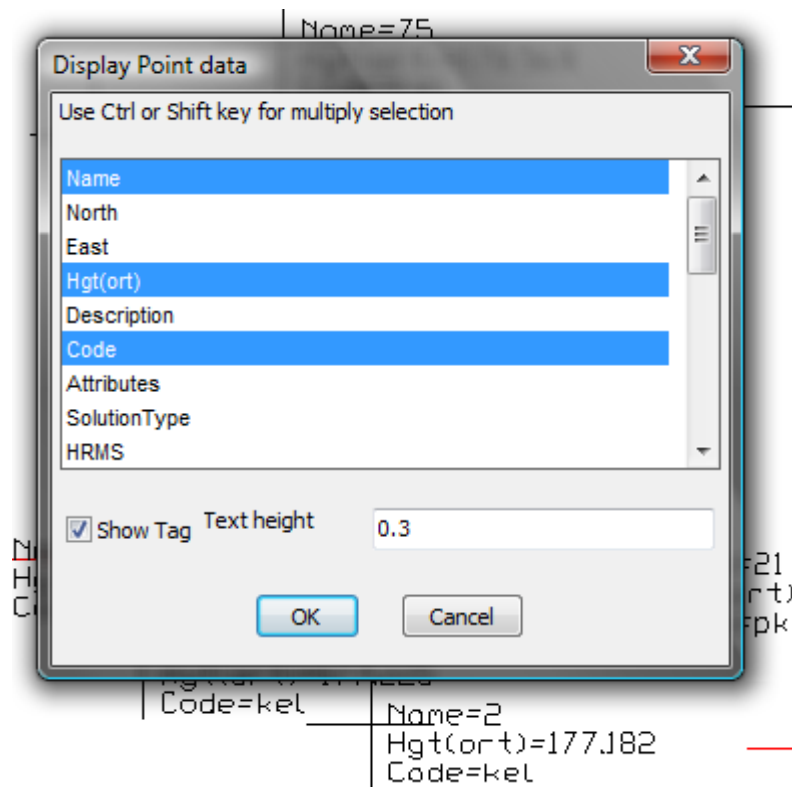
Height



Point Data table - Sample 2

## Display Point data

Command to display selected Point data on screen. It is possible to set Text height and show/hide Tags before data.



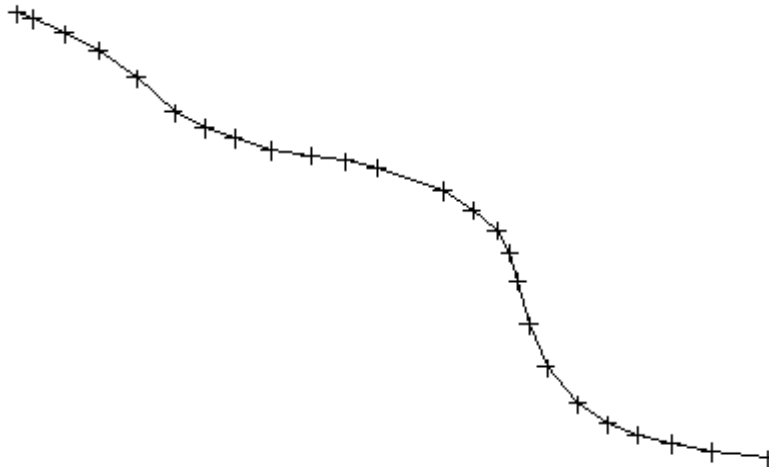
Display Point data dialog and output on screen

## Show/hide Point data

Toggle to show/hide Point data on screen.

## **Join nearest Points by open contour**

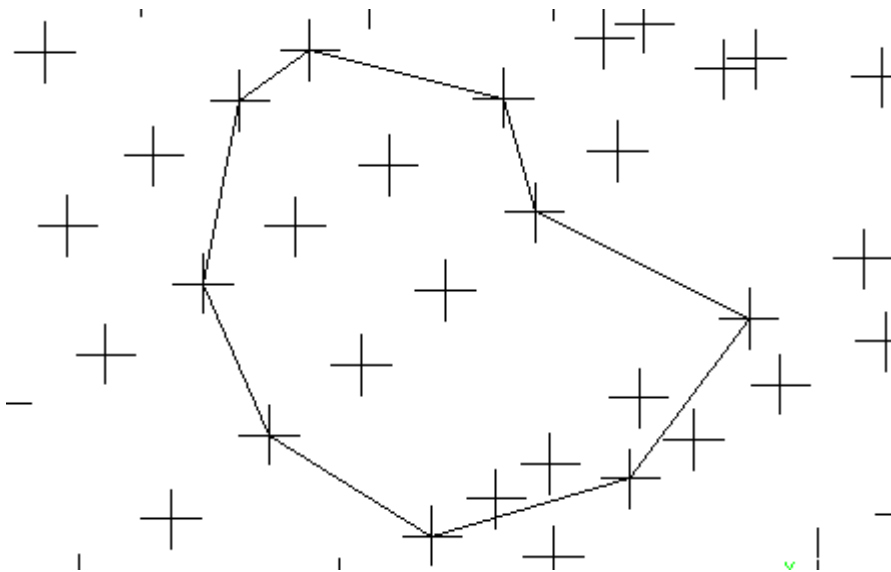
Command joins selected Points by open polyline. First Point is required as start Point to calculate distances. Tip: use Filter Points command to display required Points.



Joined points - Sample 2, Points filtered by Code='plk'

## **Join nearest Points by closed contour**

Command joins selected Points by closed polyline. Tip: use Filter Points command to display required Points.



Joined points - Sample 2, Points selected manually

Developer:



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