



New Features In TerraMatch

What's New in Terrasolid v016?

Webinar

19 February 2016

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Better Handling of Big Tie Line Sets



- 64-bit version does not run into memory limitations
- Faster display
- Sparse display – will draw only every nth tie line when zoomed out
- 64-bit version saves tie lines as a binary file (can read text files as well)
- Makes it possible to solve fluctuating corrections on big data sets

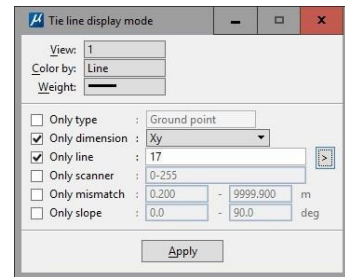


Display mode in tie lines

32

64

- Menu command for specifying how tie lines should be displayed
- You can:
 - Decide coloring (do not draw, by line or by scanner)
 - Decide line weight
 - Display only given type of tie lines
 - Display only Xyz, Xy or Z tie lines
 - Display only specific lines
 - Display only specific scanners
 - Display only tie lines with small/big mismatches
 - Display only tie lines with small/big slope

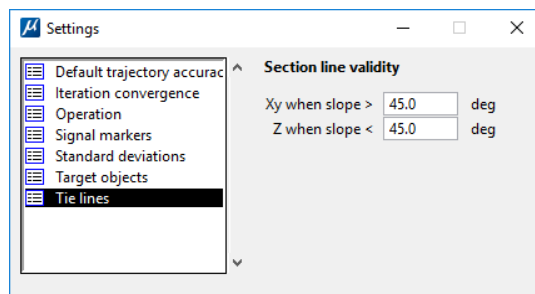


Tie Line Setting

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- Control tie line search

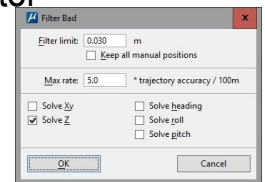




Filter bad in Tie Lines



- Removes bad tie line observations automatically
- Applies a fluctuating correction with a smoothed curve to tie lines and then removes observations with biggest residual mismatches
- Repeats the process until all residual mismatches are smaller than filter limit
- Makes it possible to collect observations automatically, filter automatically and have a good solution



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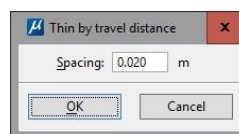
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Position / Thin by travel distance



- Removes tie lines very close to each other in terms of travel distance
- Good for:
 - Removing tie lines collected while not moving
 - Trajectory solution kept moving up and down while the vehicle was not moving resulting in a large number of tie lines without any real movement of the vehicle
 - Removing unnecessary density
 - Remove some observations, where deemed to have overkill, ie 5.5M tie lines



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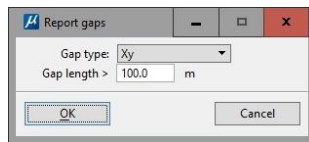
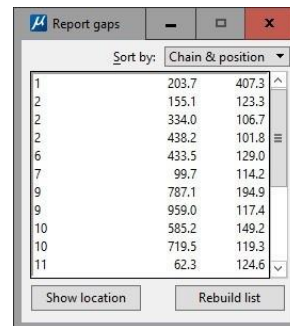
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Position / Report gaps



- Answers question: Have I done enough tie lines?
- Finds long intervals in trajectories without a tie line observation
- Reports all intervals longer than given limit

Chain	Start	End
1	203.7	407.3
2	155.1	123.3
2	334.0	106.7
2	438.2	101.8
6	433.5	129.0
7	99.7	114.2
9	787.1	194.9
9	959.0	117.4
10	585.2	149.2
10	719.5	119.3
11	62.3	124.6

Tie Lines - Add Known Point Improvement



- Option to open block automatically which will load the point data corresponding with the selected location
- Display Circle aids in the proper positioning of manhole observations

