

LOGGER Update Notes

Update Notes September 2010 to beginning of October 2012

1. Changed setout message to now show direction assistant must move left or right
2. Added option in Fixing routine to check if Fast Logging in tache had been activated. If so and the user then moves station that new station is booked into tache file so reductions are done correctly.
3. Updated Help File in Placing menu.
4. Put back Dy Dx option in Setout menu. User now presses D in setout menu.
5. Added help button in DTM as well as warning beep and message at bottom RH corner of screen indicating that observation has been stored.
6. Lat Long Conversion added to Utils menu.
7. When setting out pipelines the movement left or right was being shown relative to the pipeline center line. If you were setting out an offset then the distance left or right was not shown correctly relative to the offset line. Problem arose after I changed to reflect left or right Problem located, corrected and tested. Seems right now.
8. Battery monitor put back in. Not sure why it got removed.
9. Improved Fix printout to now show distances, directions and heights as well. After showing initial fix info, LOGGER now shows a more detailed height printout on screen. The difference between the calculated height and heights from control are also displayed and if the difference exceeds 0.050m (5cm) LOGGER beeps and flags the shot with a * The delta Ht tolerance can also be adjusted by pressing D Up to now LOGGER has been using a weighted mean for the final Z, but if there was a bum shot in there and user was not careful in checking it would be accepted.
10. Batters off reference line improved. Movements in and out were incorrect if you were on RHS of line. Checked in both Cut and Fill on left and right and now seems to be correct.
11. In some instances in Reference line when you exited the background screen was not being cleared properly. Problem found and corrected.
12. Added option in profiles for users to add an additional offset distance if setting out relative to Kerb, Shoulder or drains
13. In the "Check Design" if users had appendage options defined, LOGGER was always using the Cut option and not checking to see if the user was in cut or fill and then selecting the correct option to use. Changed, tested and seems to be working correctly.
14. When placing Batters and user selected Q for quick batters, you can press S to store. Some users want to first Store and then be able to still set the level. New option added after storing now gives the user the option to do next batter or set level.
15. In the FIX routine the screen formatting has been improved. If you have heights above 1000m Up to now the results for distance and height ran into each other. Improved.
16. When importing Pipes/Strings using PTL file I received data where the Manhole/Node point name was defined longer than the allowed 12 characters so LOGGER crashed when importing. Names restricted to 12 characters now regardless of original name length in PTL file.
17. In pipes if you change Pipe description now it updates the indexed list straight away.
18. Added Date issued to first line of printouts now.
19. When putting in a profile manually and you changed the offset Logger would return and ask for a reading. This is because it had to go right through the calcs to get a new value for the new offset and went through the same loop as when it starts. A flag has been added that if you change the offset now it will just adjust and display the new reading you should observe to.
20. Hidden point updated. Change reference point that measurement refers to, to first point taken. Added option to be able to set hidden point to loop so do not have to press H each time. Also final Z that was being calculated was slightly out because base + extension distance was used to calculate ratio.
21. Moved the storage of hidden point to the reduce tache file. Was in the field book. Makes for easier downloading. Suggest users using hidden point switch on dual storage then all readings store in one file.
22. Added Flag on screen to show if hidden point in continuous mode. You will see a / if its on.
23. Manual updated on hidden point operation.
24. When setting out Road profile I see that if you had a Cambered road it was giving a garbage ht difference for the 2nd nail. I checked against previous versions and see that something changed. I think it was when the option to move left/right was introduced. Anyway corrected now. In fact its been improved to show B or T for bottom and Top nail so user knows exactly which nail is being

- referred to. LOGGER always calculates and places bottom nail anyway. Also occasions arose where LOGGER said move down a negative value for the second nail. It will now show move UP that value. This typically happens when a pole is too short and has to be lengthened. Manual also updated with better explanation and diagram and screen dumps.
25. B will also be seen in all setting out menus now, so can be ignored if not doing Profiles.
 26. Fujiyama Models added so comms settings can be changed from 1200 to 19200 as some users download from onboard and then have to keep changing settings. They battle to download onboard data at 1200. Manual also updated. Models FYTS 5 & 2 work with Fujiyama settings and FYTSO 685 & 682 work with Sokkia settings but baud rate is 19200.
 27. When placing there is an option to press X to see Crossfalls. If you were placing anything else other than profiles and pressed X it would return to the start of the setout routine again and not the currently displayed placing menu.
 28. In Reference Line printout in field book Placed Z and Design Z were wrong way around. Corrected.
 29. Added extra column in Reference Line printout to show actual Chn and Offset placed. The theoretically required is already there but now users can see difference as well.
 30. After last update where LOGGER now shows how much to move left or right when placing, if you pressed O to check your current offset you got an incorrect answer. Answer shown was distance and offset relative to the start of your Ref line and where you were currently. That's been corrected to show actual chainage and offset of where you are relative to the defined Reference Line.
 31. In the Reference Line Field Book if only the results are output LOGGER now shows RL (reference line) at the start of the line before the comment. The RL was displayed in the full output but not in the shortened version.
 32. When doing tache, if the user pressed L to Look/plot the data and was not using the dual option LOGGER crashed. That's because there was no data file to plot from. Problem located and corrected.
 33. Added additional check when importing Vertical alignments in PR3 file. If there is no counter at the end of the line or no vertical defined it will warn the user and escape and not go into an endless loop. Same as above for other fields like road widths and crossfalls also checked.
 34. Removed the Road Maker RTL import option.
 35. Added Civil Designer import option. Will read DES file and use whatever info is in there.
 36. Changed range display in Long /Short chainage section. Was limited to 100m. Had data set that exceeded that so would only display to max of 100. Set to 1000 now. Not really a clever equation to have.
 37. Horizontal PI's increased to 375 from 350.
 38. When importing PID file I now check that the first line (description) is only 28 Characters long. If longer it gets trimmed. Problem arises later when you download or try to edit you get "string to long error".
 39. Added question in defaults to allow user to set up dual tache storage as default now. Dual storage allows user to store both raw and reduced obs. Some users do not have means to reduce their tache. Even if you do have means to reduce, this option is a lot quicker. Once downloaded you can read in directly.
 40. Added function in Setout Chn & Offset option to allow user to determine position. User can enter any Chn and offset to start with and the press D to determine.
 41. In Setout Chn & Offset option if user entered 0 for both Chn and Offset, LOGGER would crash with divide by zero error. Corrected.
 42. Added option in Chn & Offset to allow user to enter required Chn and Offset and show differences. Once point has been determined this option is available.
 43. Changed H/A array back to 350. Memory issue with swapping to tache in field.
 44. Added Shorter field book option for Cadastral Placing.
 45. In circle routine change input values to only allow increments for angles and distances to be positive. Pressing Up / Down arrows automatically increases or decreases for user. Allowing Negative angles made display sometimes show **. ** for minutes and seconds.
 46. Allow user to swop packs while swapping jobs. If you have jobs on B and internal you can now swop between them.
 47. Leveling removed 0.000 from storage string, so comes into Spreadsheet better.
 48. Changed download Ext for levels from SLD to CSV. Then reads directly into Spreadsheet.
 49. Added option in Leveling to enter start name and get Z from File.
 50. Reduces levels on the fly and stores now as well.

51. Extra line added in header of Levels so when downloaded there is nice clear break between headers and data. Much Neater.
52. Added totals now as well to level field book.
53. Show level formats for normal and Civil Designer on screen now.
54. Now keep track of number of change points and misclosure and write these values and adjustment to file as well.
55. Added "LE" to downloaded level file as well.
56. Added time to end of Level file when finishing as well.
57. LOGGER now displays the current level while leveling.
58. Added option to download Reduced levels with Adjustments done, or RAW data. If you added to a file you must download RAW.
59. Added option to escape if Level file exits.
60. In Refline have added option for users to enter required Chn & Offset and also to display the differences in the field. Useful when setting bolts or shutter CL's. These additions only added to "Results Only" field book. Not enough fields in the option to record field+results
61. In Dual Storage of Tache also writes Target Height now.
62. In Reference Line added option to take RO at any stage as well. Press L to Log.
63. Changed download format of reduced tache so will come straight into Model Maker as using YXZ format.
64. Finished Shorter Cadastral field book format and storage. Slight adjustments.
65. Added option to store refline coords to reduced tache file as well as fieldbook.
66. Swopped headings around in Refline for results only.
67. In Refline when using D (Determine option) now allow user to define own comment and not automatically store "Point Determined". Data can go to reduced tache file with user defined comments for easy plotting and reference back in office.
68. In tache the limits option is very useful for checking verticality of columns.
69. Added option to delete reduced tache file.
70. Fixed bug in tache when selecting to check RO. If you selected check before having logged a previous RO the system crashed as had nothing to check against.
71. In refline when displaying terminal coords Logger would sometimes crash if terminal Z's were both zero. Corrected. Added check that if both zero will then not try and display grades.
72. Improved on option in field book. Now if Dual Storage is active then any placing or checking routine that writes YXZ to the fieldbook, now also writes the values to the reduced tache file. Result is less office work, because coordinates can now be imported into PC software with no formatting required.
73. Added hotkey A to allow user to enter desired Chn and Offset when prompted for Stake Value in Refline. This allows you to preset your required info up front and saves time. Can also be set and changed after point has been determined.
74. Added option when setting out Chn & Offset to allow user to set out CL Offset line if defined. In situations where CL is offset from Staked line and varies, user may need to stake Offset line for road marking etc. User can still add offset to offset line.
75. Also when escaping from menu where chainage and offset are displayed for setting out, LOGGER goes back only one menu to allow user to redefine Chn, Offset, Increment and now whether to use actual CL offset definition or not.
76. Changed display to show user if CI Offset definition is ON (being applied) or OFF (not being applied)
77. Had another look at dual carriageways with gradeline and centerlines offset all over the place. Redid the logic there and tested for Gradeline and Centerline left of stake line, then Gradeline and Centerline right of stake line. Also checked where Gradeline left of Stake line and centerline right of stake line and also Gradeline right of stake line and centerline left of stake line. All very complicated.
78. Added in option to setout Gradeline Offset. LOGGER will only let you choose Grade or CI Offset. Not Both.
79. Swopped fields in refline to correct output for actual and required Chn.
80. In Reference Line when you started with a negative or positive starting chn the results printed to the fieldbook did not reflect correctly The starting chainage was not being added. Corrected.
81. When importing Vertical Curve info there is a limit of 450 VPI's at the moment. Some users had data exceeding that number and the system would read and eventually crash. LOGGER now checks and will only allow 450 VPI's even if more are defined. A warning is posted so user is aware he may be short of data.

82. Added option to enter/Change Prism Constant. Presently was only available in Tache. Now operational in Refline and all general Setting out routines. I use the % key as hotkey to activate option. Think of it as 2 different Prism positions. If not sure use the ? for help. When Psion constant is changed a note is written to the field book automatically stating the new value
83. Added OS/ES and Topshot instruments to the menu as well now. OS/ES work same as Topcon and Topshot same as Sokkia.
84. Removed Option to convert old VA to new format. Was in there from way back (about 6 years ago) and should no longer be needed.
85. Changed headings in Lat Long conversion to read "Conversion Lat/Long to Lo". Was displaying Lo to Lat/Long" Cosmetic that's all.
86. Gowin Topshot and OS/ES machines comms parameters updated.
87. Logger was not checking the case where user had a Centre Line offset and NO Gradeline offset defined. Have taken into account now. Checked against live data and seems to be correct.
88. Added additional underline characters in heading report for Elevation check .Cosmetic.
89. Improved printout when doing Layerchecks using a level. Up to now if user had a CL Offset it would not update the defined offsets. So if you had a CL Offset of 5m and defined offsets of -3 0 3 for your levels, then -3 0 3 were displayed in the report. Logger will now add the offset so it will reflect -2 5 8 now for example. Evidently the file can be read into Road Maker and up to now users had to edit the file first which took a long time
90. Logger now shows if you have a CL Offset defined now when doing layerworks checks with a level.