

# ***HOW TO STORE DATA USING LASER SICK LMS 1XX***



**User guide “Stück für Stück”**

1. Start the program “Sick Engineering Tool”. Fig 1 and 2

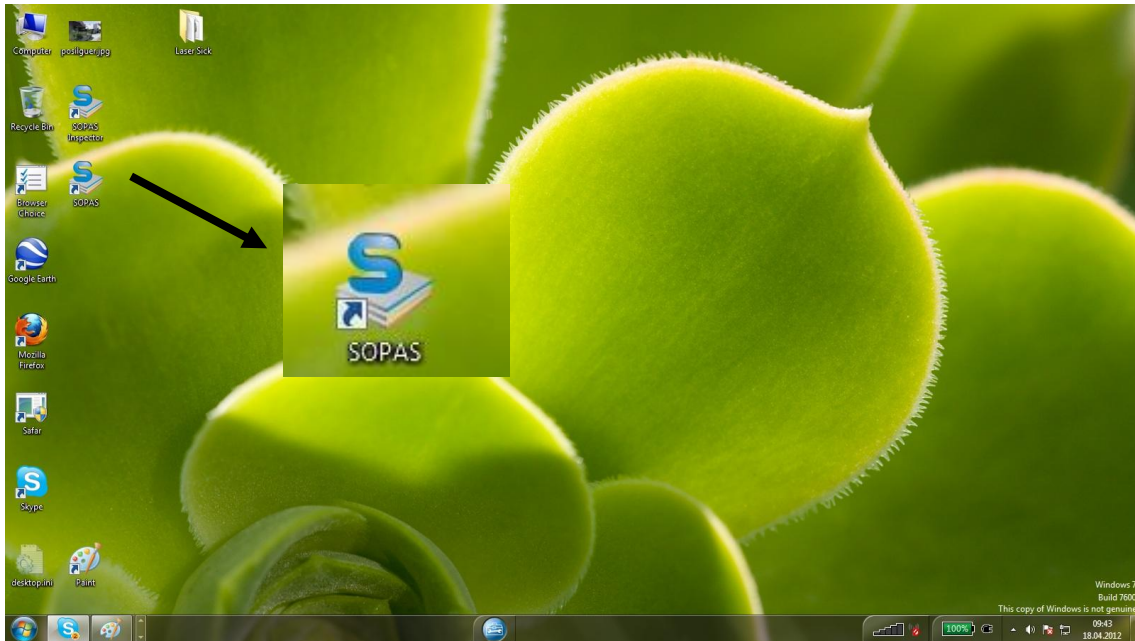


Fig. 1. Logo Sopas “Engineering Tool”



Fig. 2. “Sopas Engineering Tool”

2. Select "Connect to new device". Fig. 3.

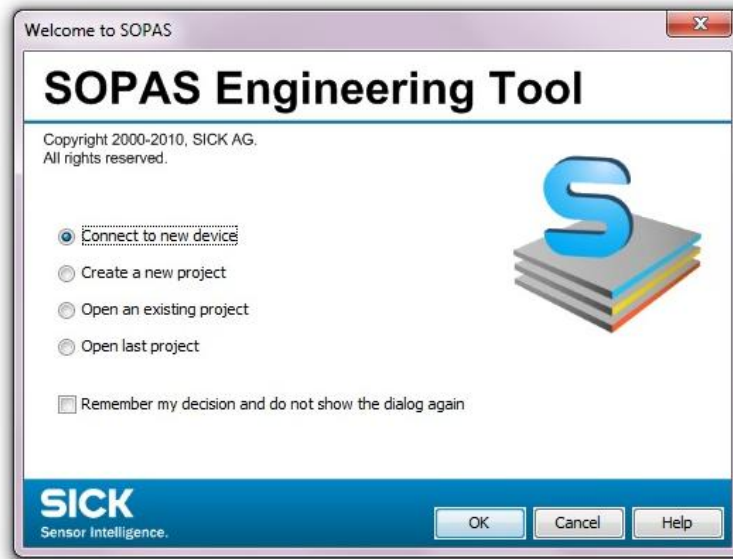


Fig. 3

3. Select "Show all connected devices". Fig. 4.

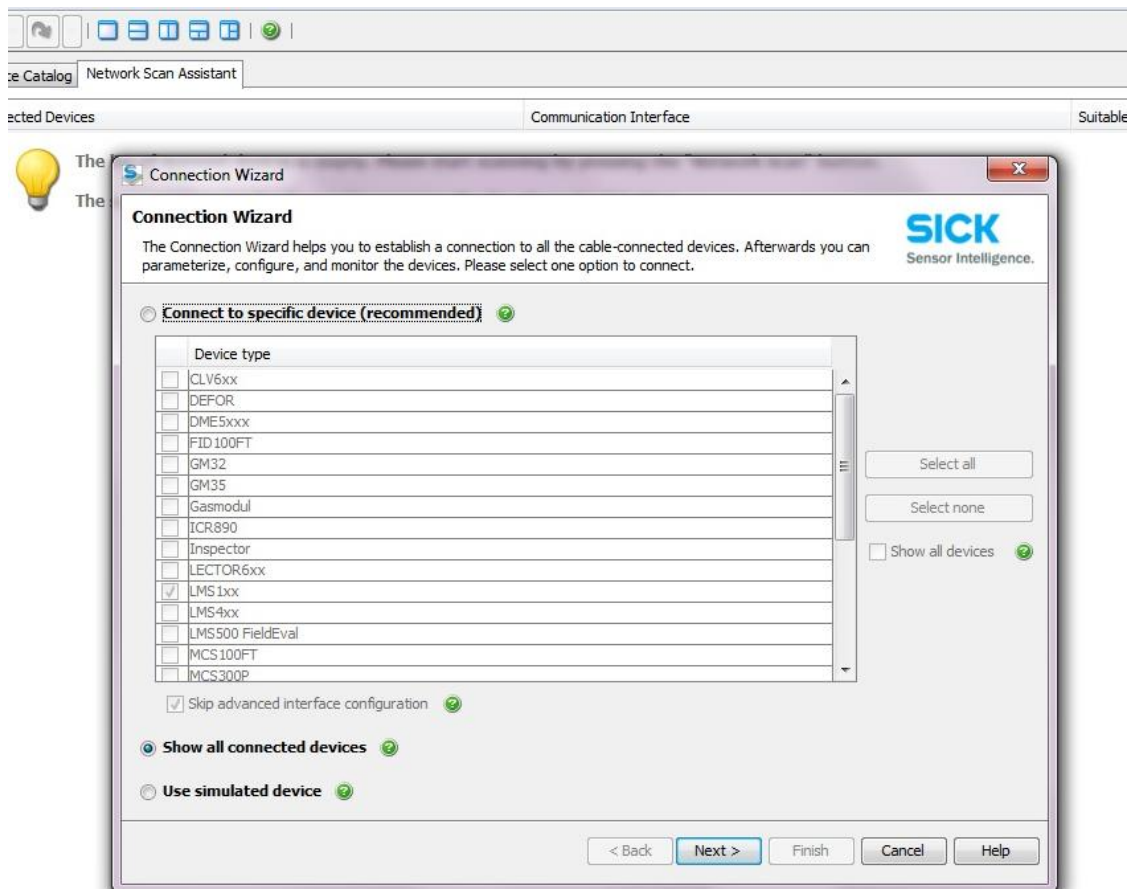


Fig. 4.

4. Interface selection, in this case “Internet Protocol” must be selected. (Using an Ethernet wire).Fig.5

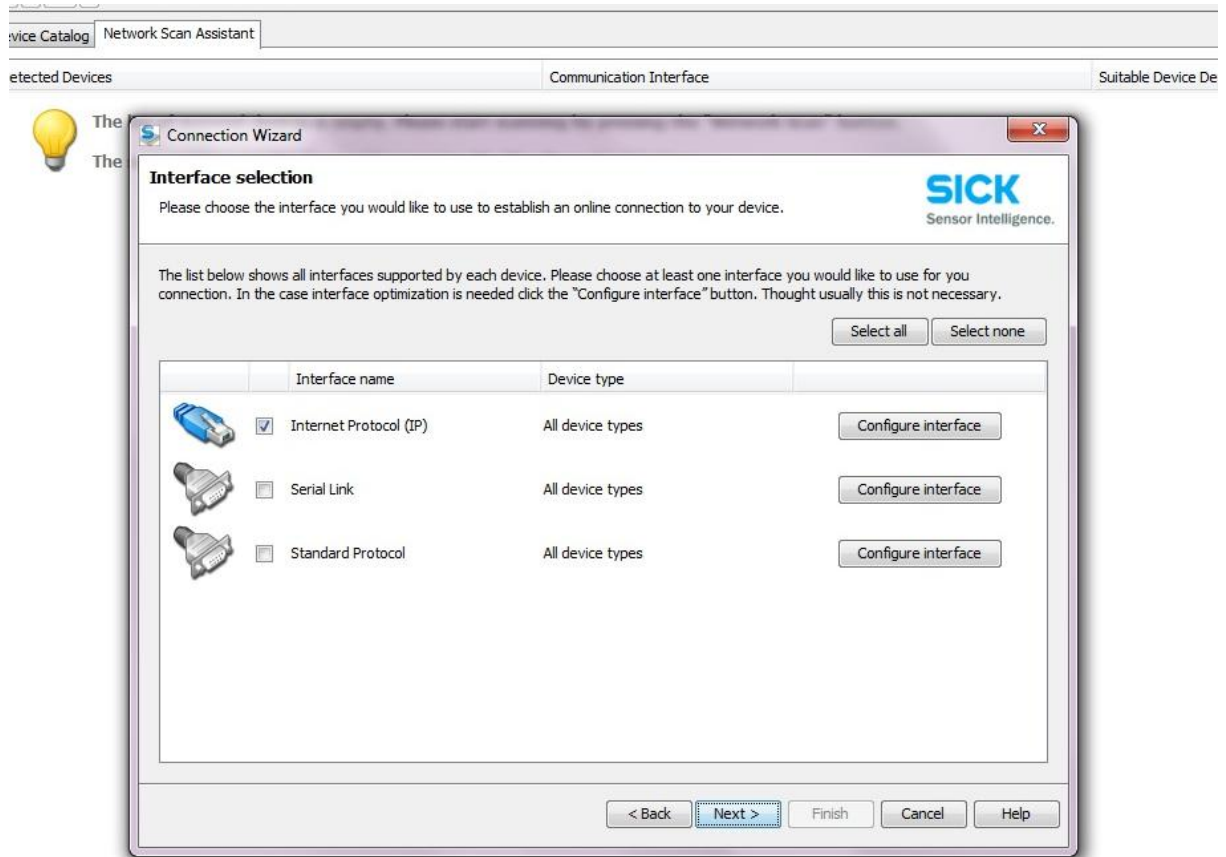


Fig. 5

5. At this step the computer has detected the Sick device. Warning: In spite of being detected the LMS laser it has to be chosen (see red circle). Fig.6.

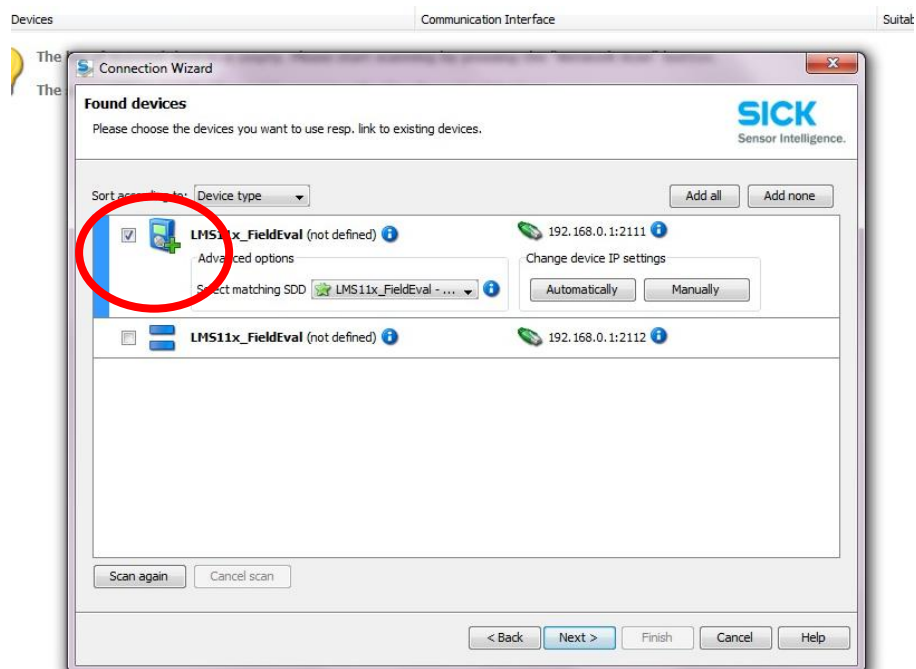


Fig. 6.

6. Loggin the device. Userlevel as *Service* gives more rights than the others (fig.7)

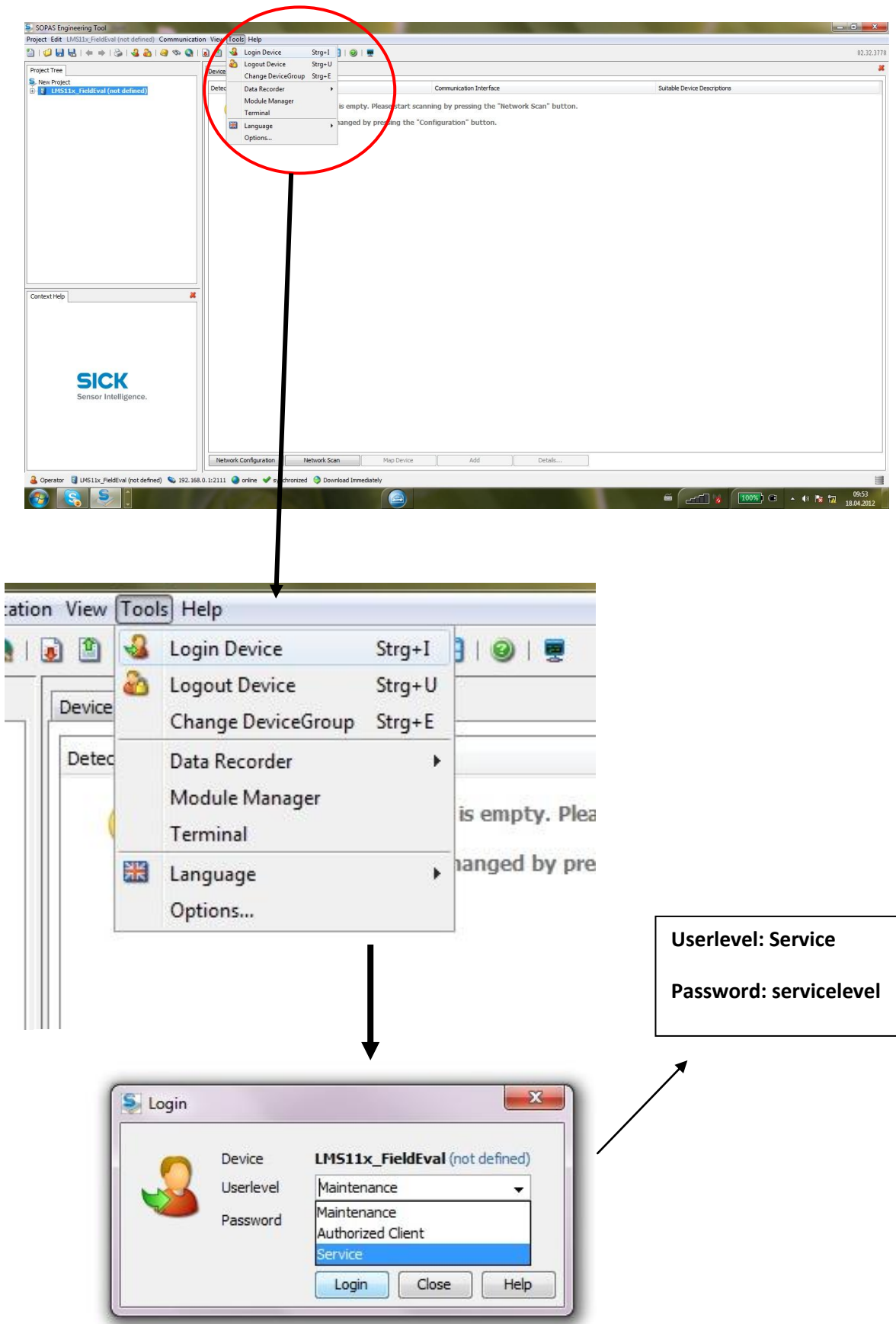


Fig. 7.

**7. Parameters (by default). It has to be taken into account the following files (clicking on them). Fig.8.**

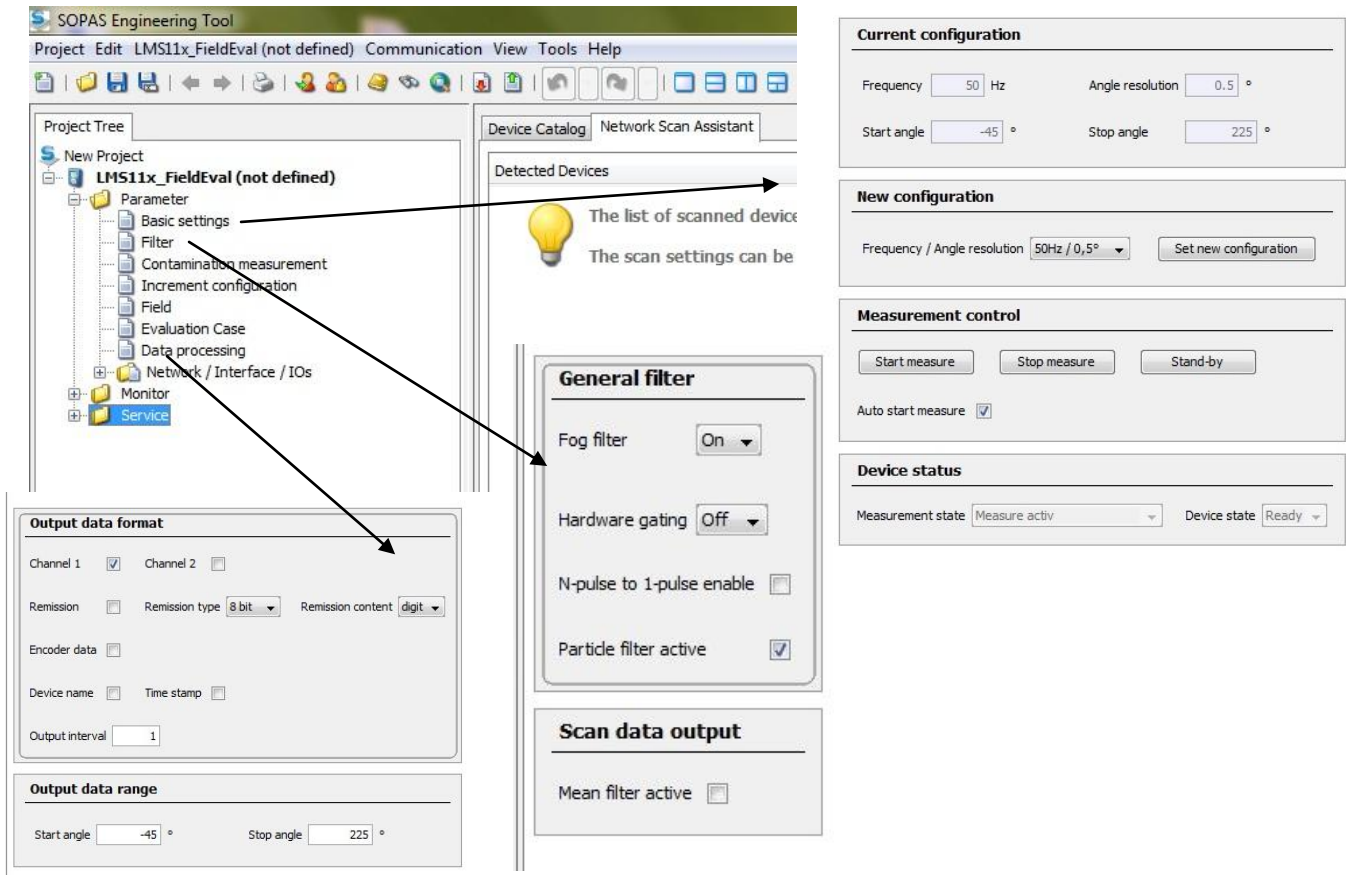


Fig. 8.

**8. Field Evaluation Monitor (clicking on that file) and in order to visualize the scanning just click on "Show scan".Fig.9.**

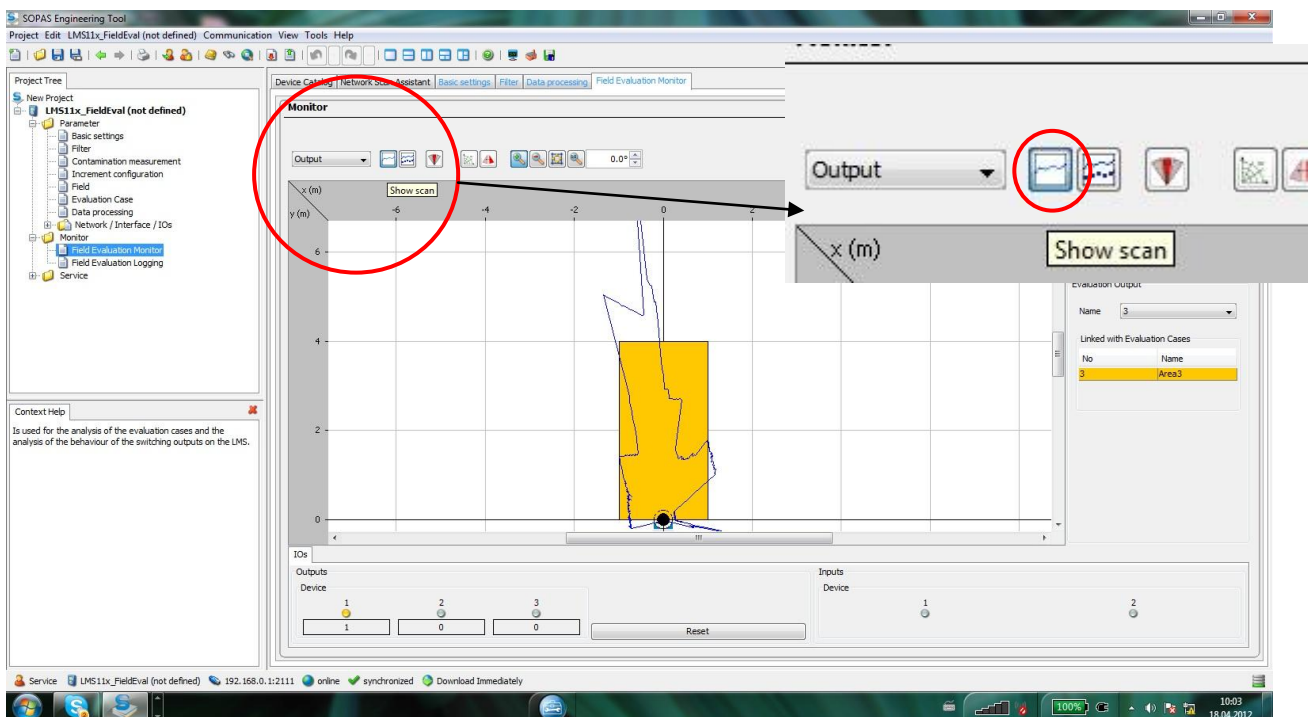


Fig. 9.

9. Data recorder settings. Path: Tools/Data Recorder/Configuration. Fig.10.

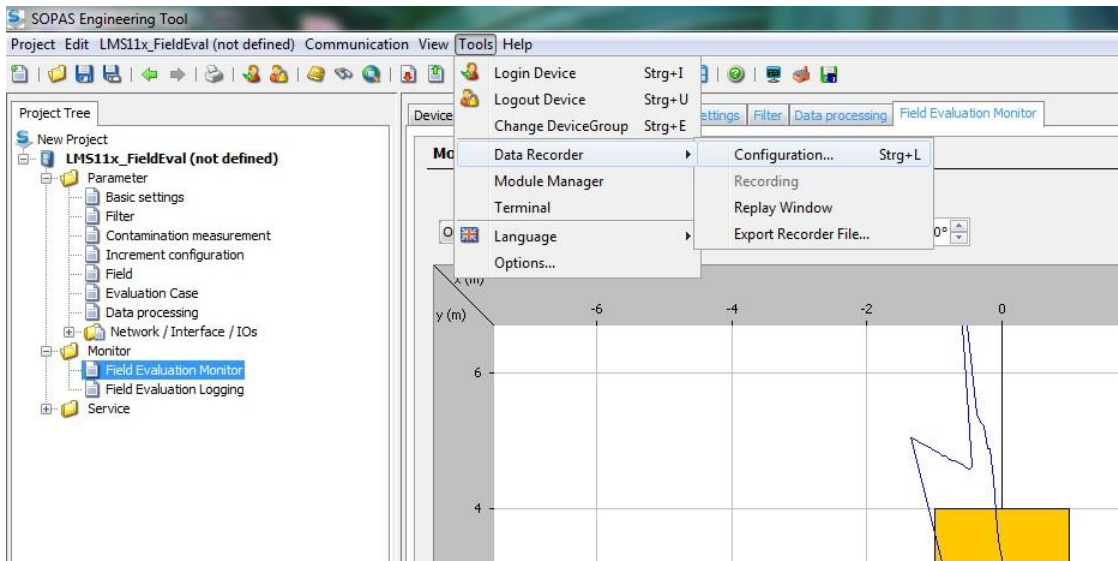


Fig. 10.

10. After clicking on “Configuration” a new dialog box pops up. Fig.11.

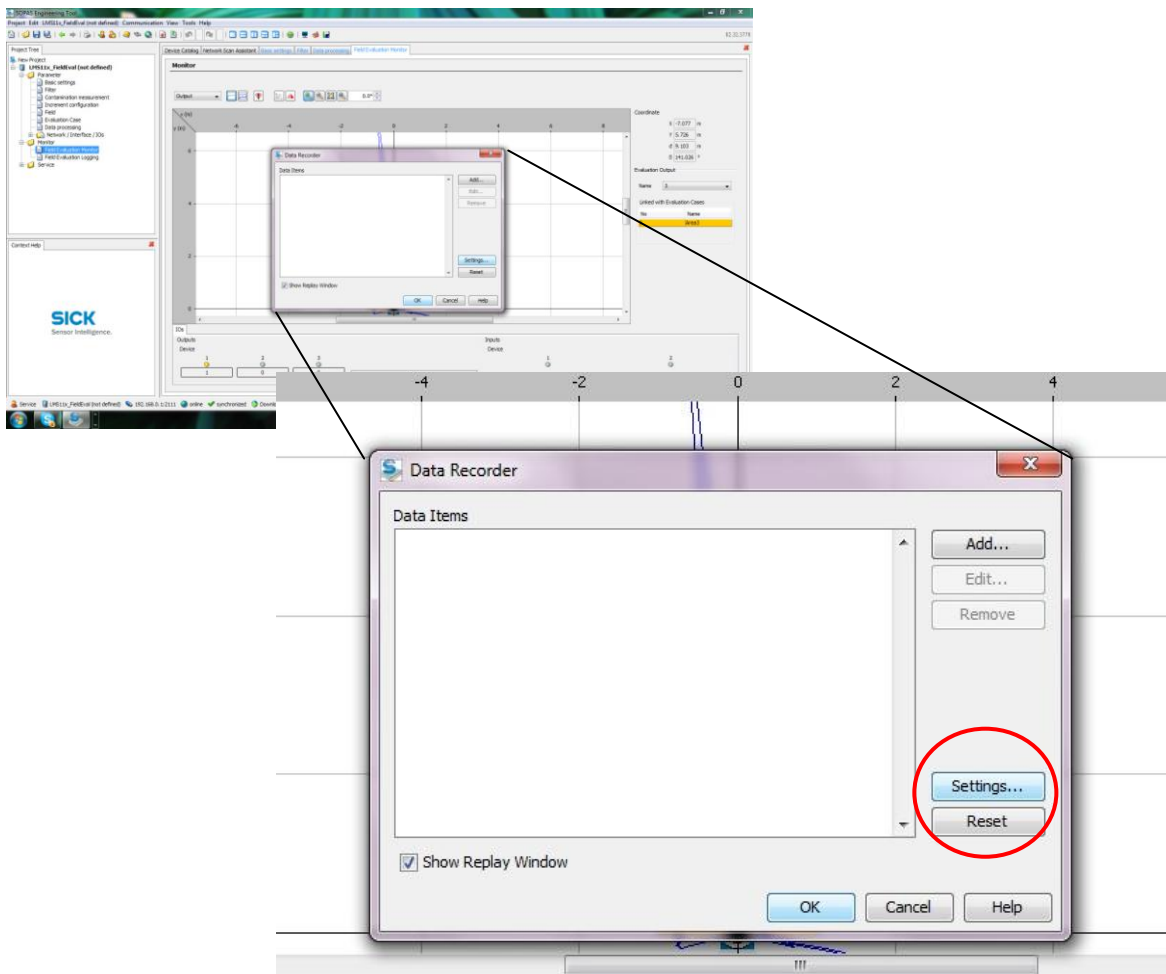


Fig. 11.

11. Clicking on “Settings...” on can set the path where the scanning is going to be store (and type the name) and the maximum size of the file.(See red circle at figure 11). In this case the name is “SAMPLE\_1.log” and the maximum size 5MB. Fig.12.

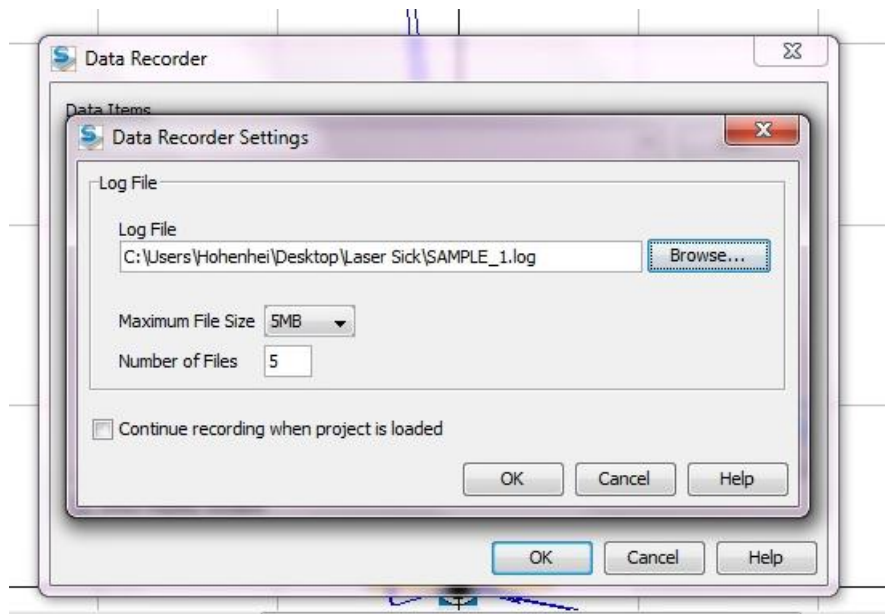


Fig. 12.

12. Next step is to add the device. Click on “Add...” Fig.13.

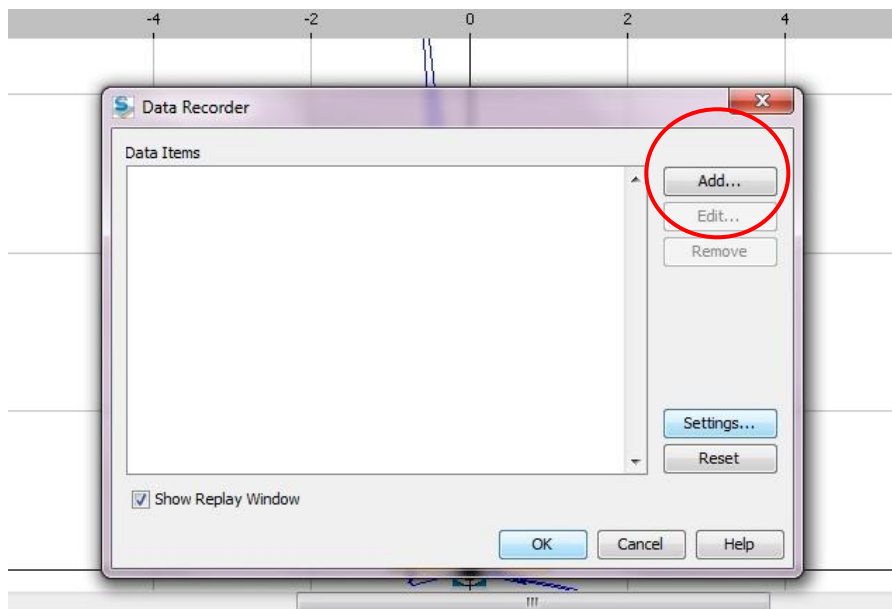


Fig. 13.



13. Now the device (LMS11x\_FieldEval) is selected but there are still some settings to be considered. Fig.14.

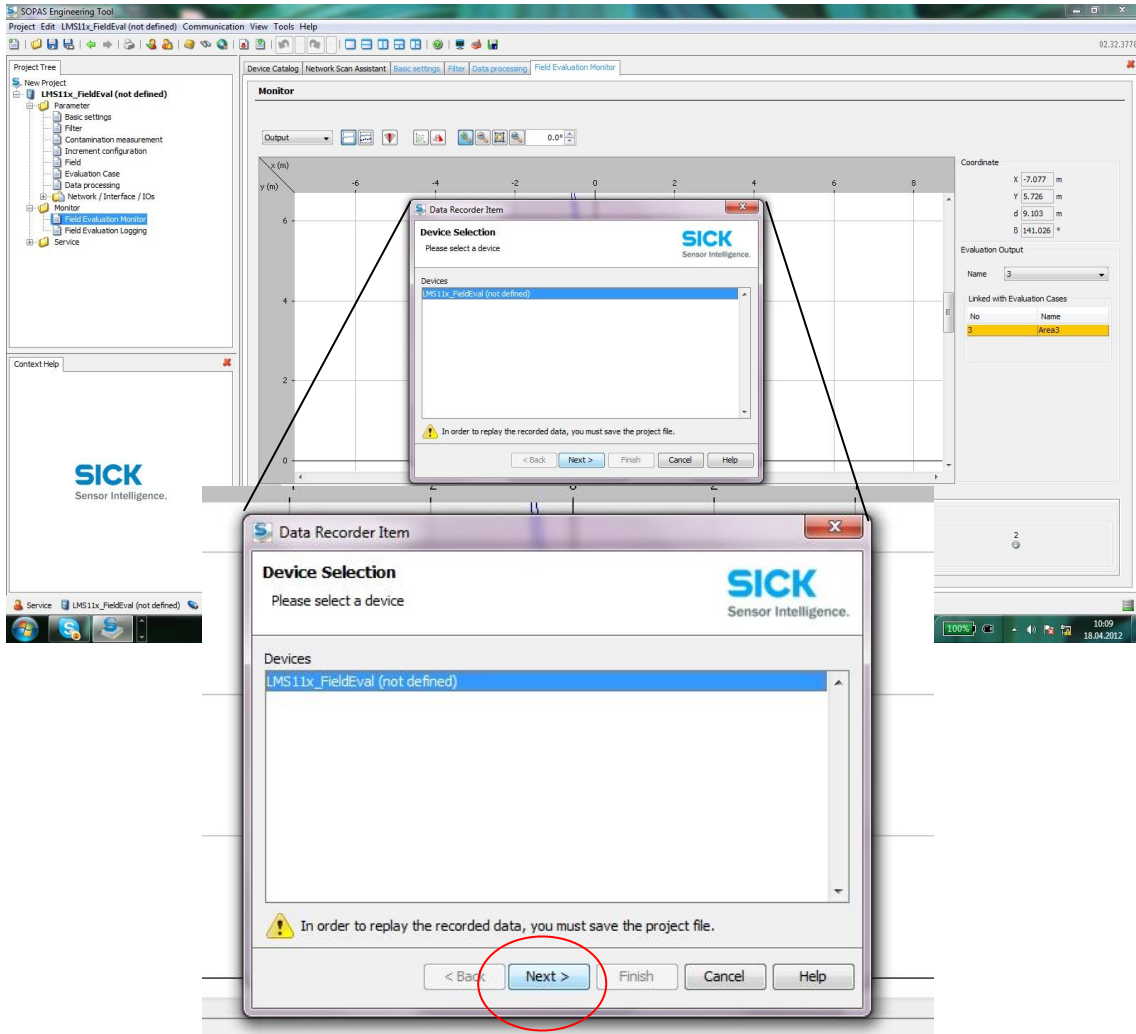


Fig. 14.

14. A new dialog box pops up. Fig.15 and Fig.16 (enlargement).

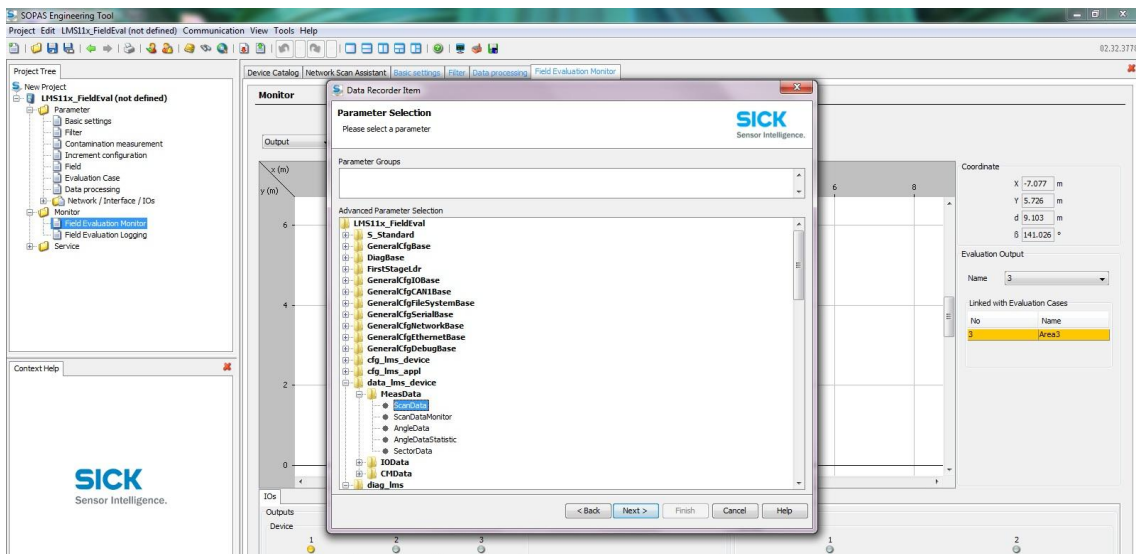


Fig. 15.

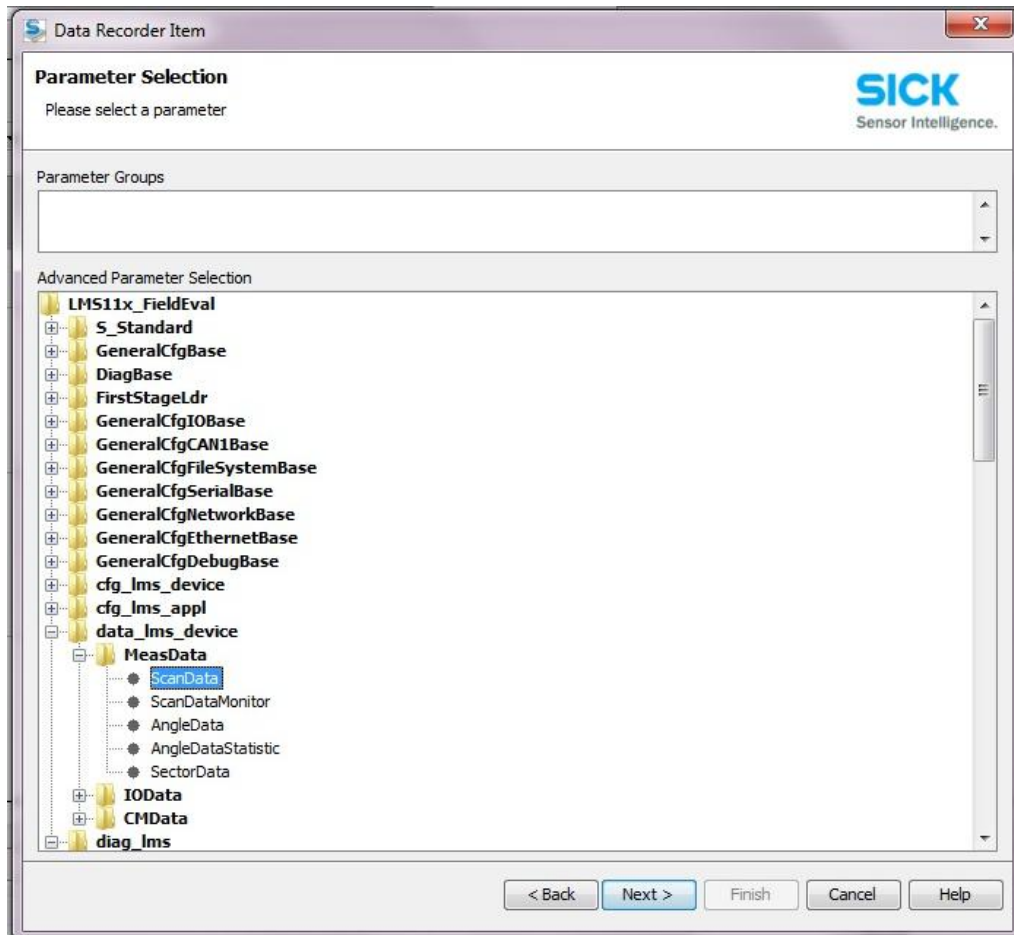


Fig. 16.

Click on "ScanData" and it leads to the following (Fig.17.) dialog box. (just press "Finish"):

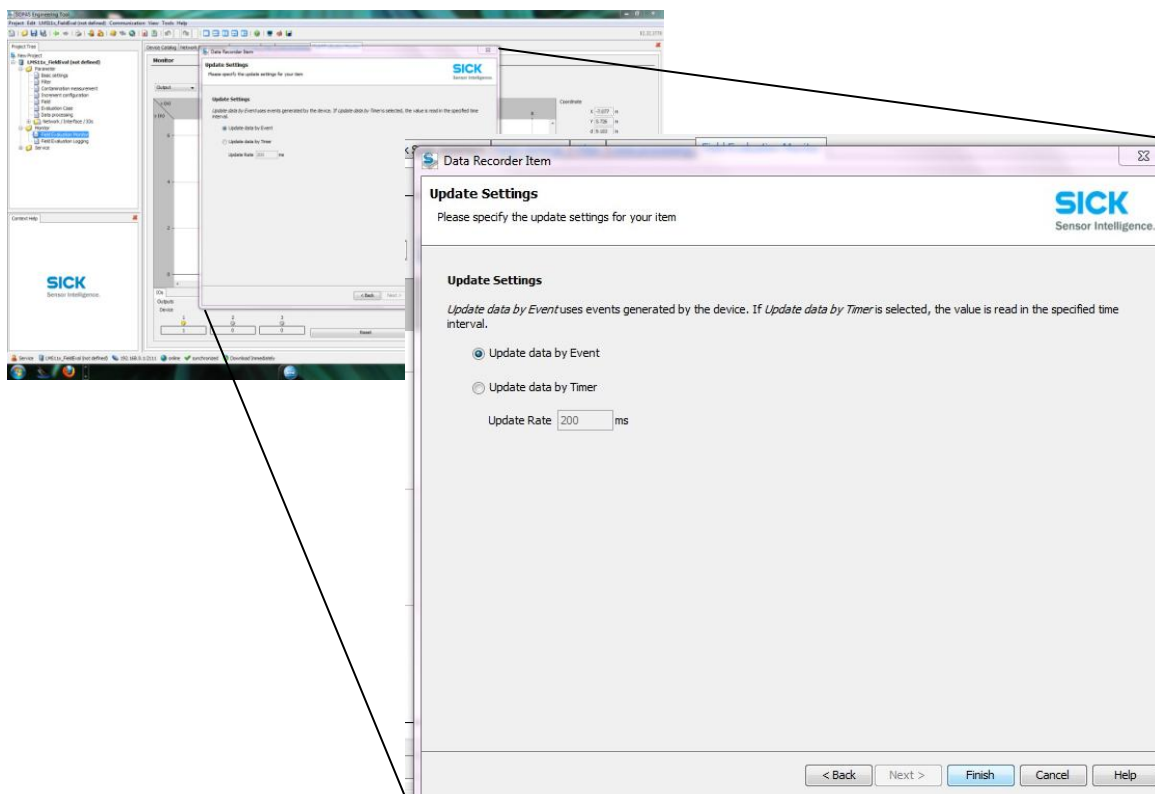


Fig. 17.

15. And just now everything is ready for recording data. Make sure that at “Data Items” appears “LMS11x\_FieldEval (not defined) – ScanDataMonitor – Event. (Fig.17). and then click on “OK”. Fig.18.

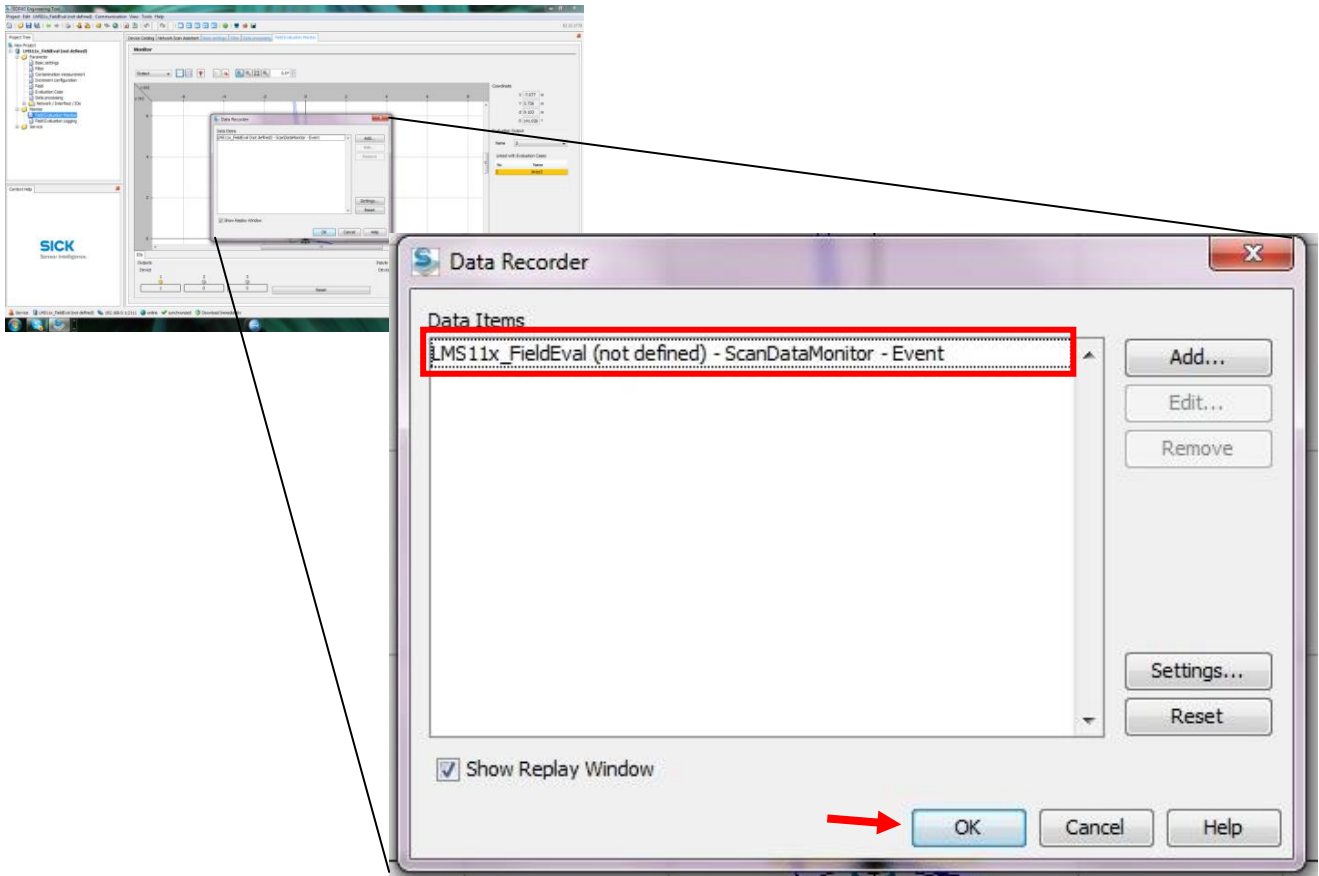


Fig. 18.

16. New windows pop up:

Sometimes it can pop up: “The changes you specified require that the currently active recording has to be restarted. Do you want to continue?”

If so, click “YES”

And at the following window just do the same “Yes”. Fig.19.

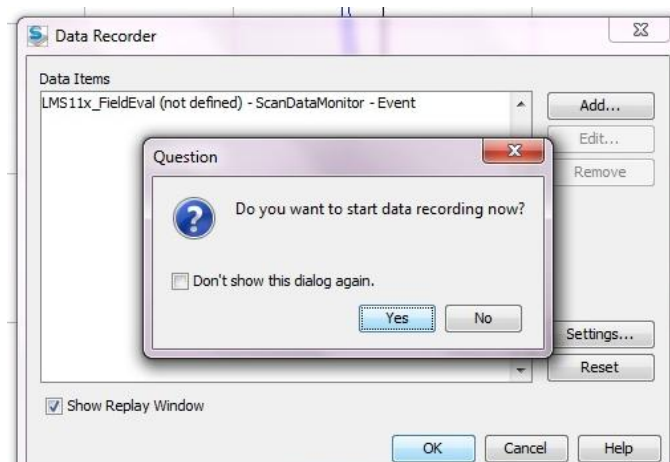


Fig. 20.

# 17. Right away it starts to record data. Fig.21 and Fig.22.

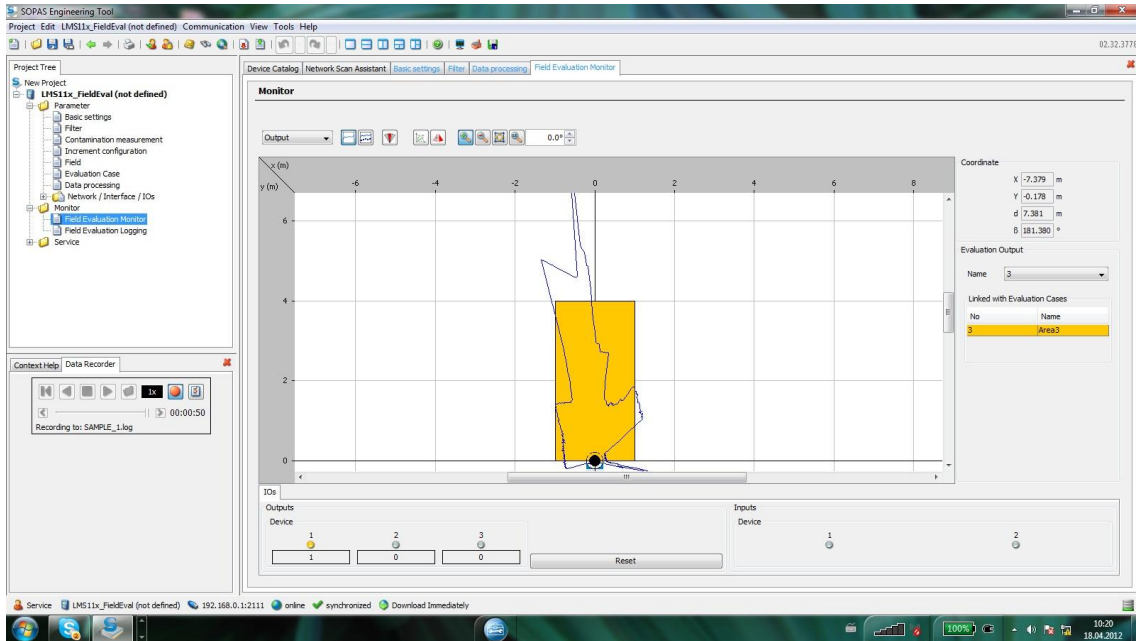


Fig. 21.

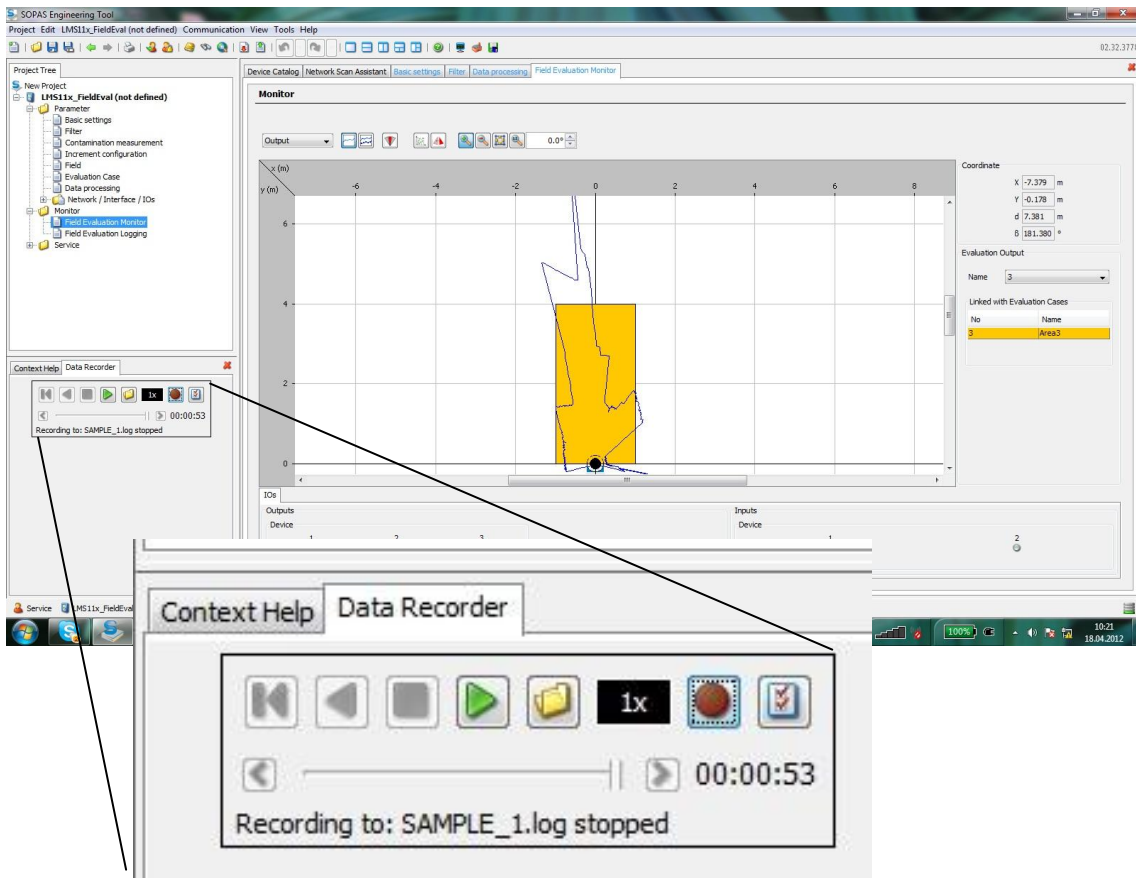
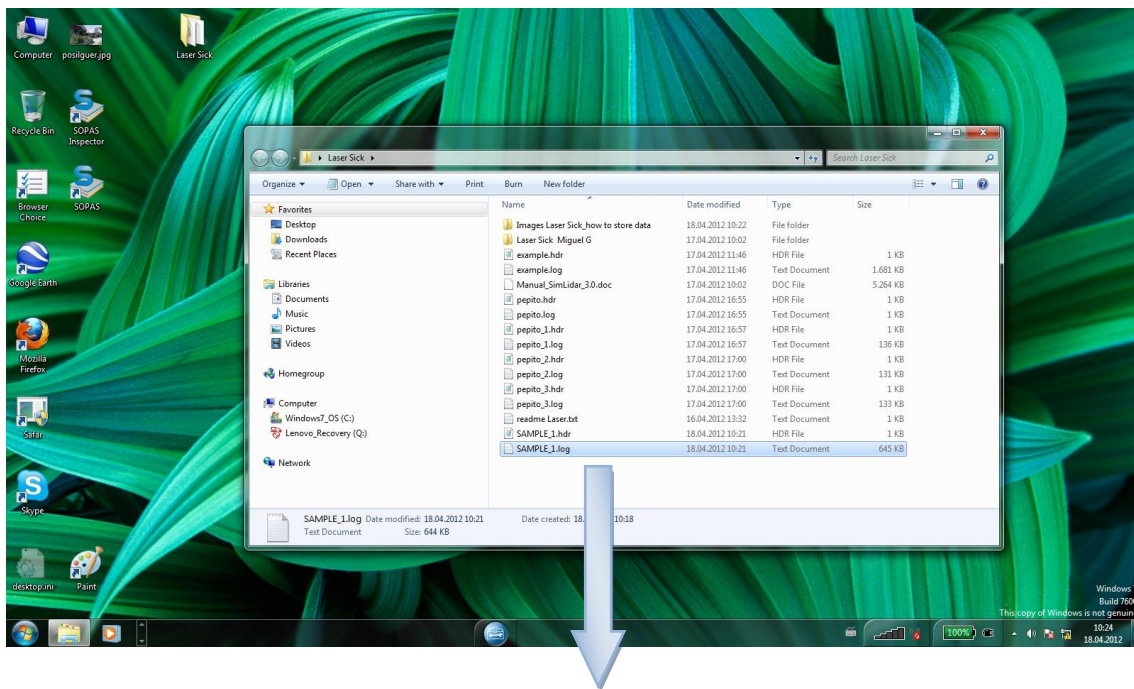


Fig. 22.

## 18. Two files have been created:



pepito_2.log	17.04.2012 17:00	Text Document	131 KB
pepito_3.hdr	17.04.2012 17:00	HDR File	1 KB
pepito_3.log	17.04.2012 17:00	Text Document	133 KB
readme Laser.txt	16.04.2012 13:32	Text Document	1 KB
SAMPLE_1.hdr	18.04.2012 10:21	HDR File	1 KB
SAMPLE_1.log	18.04.2012 10:21	Text Document	645 KB

And the important one is “\*.log”. It contains all the distances recorded and some parameters.