



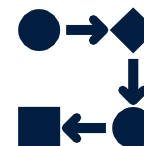
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# Tools for Line Name Verification

# Introduction

To facilitate and speed up the work of listing and finding wrong line name, missing SPL session, gaps in SPL session etc, several tools was created using python3.8 coding. Here are the three tools:

- **splsensors**: main tool that need to be run before the other tools.
- **mergexlsx-spl**: This tool will merge the Final vessel spreadsheet generated by splsensors in one unique spreadsheet.
- **renamesensors-spl**: This tool will rename the sensors files using the Final QC spreadsheet generated by the mergexlsx-spl tool.

## TODO:

- A small bug to be resolved: the tool will not find the wrong name when the sensors data have a \_01 or \_02 but not in the SPL line name.

M5008	0100_20200517_200018_Fugro_Enterprise_M5008 [OK]	M5008_002 [OK]	M5008_02H [OK]
	0101_20200517_204740_Fugro_Enterprise_M5008 [OK]	M5008_001 [OK]	
M5064	0181_20200526_193623_Fugro_Enterprise_M5064 [OK]	M5064 [OK]	M5064_02H [OK]

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splsensors



# splensors

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This tool will read the SPL Starfix files (.fbf, .fbz, .pos) and the sensors data (.all, .xtf, .sgy, .csv[mag]) and create a spreadsheet that can be used for:

- finding where the naming convention was not done properly;
- finding missing SPL session;
- finding gaps in the SPL;
- finding sensors that start much before the SPL session;
- finding wrong datetime in the .sgy files.

The tool will create csv file with the list and datetime of the sensors that was read in the first run. For the next runs these csv files can be used to speed up the process if you have new SPL session to check the sensors with or just new sensor data for just on type of data.

Note: All sensors take few millisecond to be read but the .sgy format take must longer from 2 to 10 second, depending of the size.



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**Linename comparison tool between SPL and sensors**  
Linename comparison tool between SPL and sensors

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**SPL Options**

**SPL Root Path**  
This is the path where the \*.fbf/\*.fbz/\*.pos files to process are. (Root Session Folder)

S:\JOBS\2020\20030003\_Shell\_ASOW\Processing\Proc\FinalTrackplots\ShellASOW\_2020\_FinalNav\_CRP\_FBR\pos\Brasilis\_CRP Browse

**SPL Position File Name**  
SPL position file to be use to compare the sensor, without extention.

FugroBrasilis-CRP-Position

**Start Buffer [s]**  
Start buffer [in second] to be used to included sensors that have start before the session start.

900

This first windows will defined the path of the SPL data, the SPL file name that will be use to do the comparison (e.g.: FugroBrasilis-CRP-Position) and the buffer time that will be use to find the sensors that start before the SPL (e.g.: 900 = 15 mins)



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**Sensors Options (First Run)**  
Leave the field blank if you do not need to process the sensor

**ALL Folder Path**  
ALL Root path. This is the path where the \*.all files to process are.

**XTF Folder Path**  
XTF Root path. This is the path where the \*.xtf files to process are.

**SGY/SEG/SEG Y SBP Folder Path**  
SGY/SEG/SEG Y SBP Root path. This is the path where the \*.sgy/\*.seg/\*.segy files to process are.

**CSV MAG Folder Path**  
CSV MAG Root path. This is the path where the \*.csv files to process are.

**SGY/SEG/SEG Y SUHRS Folder Path**  
SGY/SEG/SEG Y SUHRS Root path. This is the path where the \*.sgy/\*.seg/\*.segy files to process are.

Path of all sensors that need to be included to the process. Fill free to leave blank if you do not need or have the sensors type.



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**Sensors Options (Others Runs)**

This option can be use to speed up the creation of the final list.  
Use this option if you do not need to re-read the sensor files  
Leave the field blank if you do not need to process the sensor  
PLEASE THE FILES SHOULD BE IN A OTHER FOLDER THAT THE OUTPUT FOLDER SELECTED IN THE TOOL!!!!

**\*\_MBES\_Full\_Log.csv File Path**  
This is the file that list all MBES and it start time generated by this tool on the first run.

Browse

**\*\_SSS\_Full\_Log.csv File Path**  
This is the file that list all SSS and it start time generated by this tool on the first run.

Browse

**\*\_SBP\_Full\_Log.csv File Path**  
This is the file that list all SBP and it start time generated by this tool on the first run.

Browse

**\*\_MAG\_Full\_Log.csv File Path**  
This is the file that list all MAG and it start time generated by this tool on the first run.

Browse

**\*\_SUHRS\_Full\_Log.csv File Path**  
This is the file that list all SUHRS and it start time generated by this tool on the first run.

Browse

Path of all logs that was generated by the first run. Fill free to leave blank if you do not need or have the sensors log type. This is very useful to speed up the process, especially with .sgy data.



# splensors

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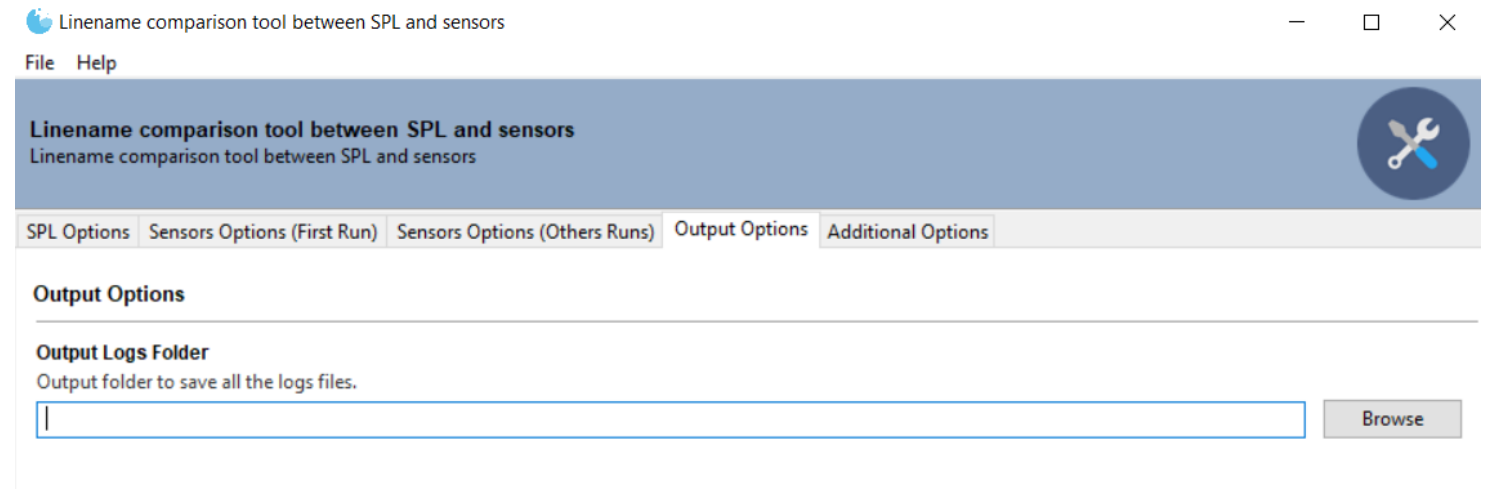
**Output Options**

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Output folder for the logs and spreadsheet to be saved. If you are using the option "Sensors Options (Other Runs)", please select a other folder that the first logs are. Note: The tool have a safeguard and the tool will stop if you use the same folder.

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Additional Options

**Move MAG and SUHRS in the vessel folder?**

This will create and vessel folder in the sensor folder based on the SPL name vessel and move the files to this.

yes

**List of folder to be exclude**

List all folder that need to be excluded from the recursive search.

(eg.: DNP,DoNotProcess) Comma separated and NO WHITESPACE!

Note: This just apply to the sensors folders

DNP,DoNotProcess

- The option "Move MAG and SUHRS...." is useful when you have the sensors for several vessels in the same folder. You can not run the tool for several vessels at the time, because the sensors from other vessels can match the time from the SPL of the processing vessel. This will help to organised.  
*Tips: run this alone before running for all other sensors.*
- The option exclude folders, will exclude all the listed folders to be process.





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mergexlsx-spl

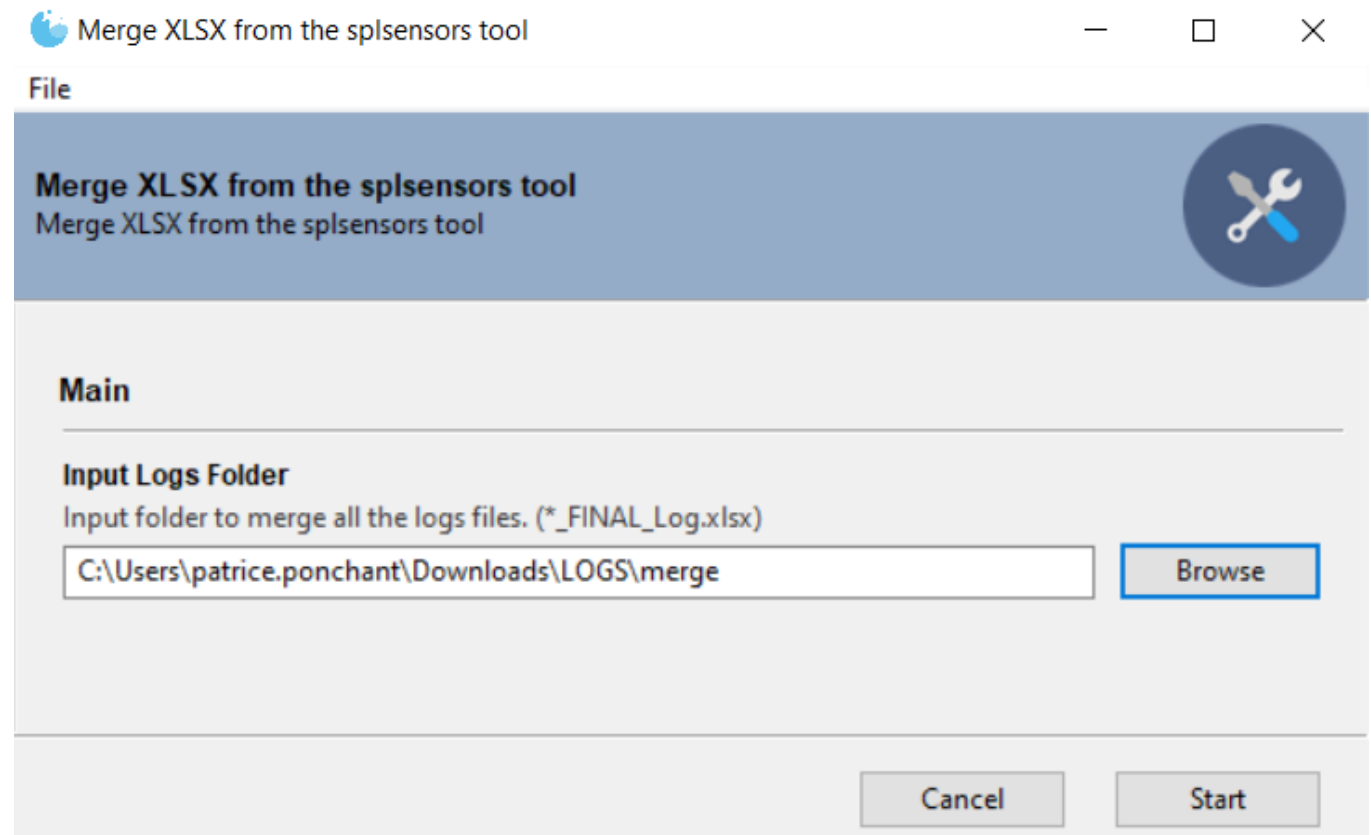
The final spreadsheet contain the following sheet to QC the data:

- **Summary\_Process\_Log:** Summary log of the processing
- **Full\_List:** Full log list of all sensors without duplicated and skip files. (Sensors Not Transposed)
- **List\_Transposed:** Log list of all sensors transposed and matching all sessions)
- **Missing\_SPL:** List of all sensors that have missing SPL file.
- **MBES\_NotMatching:** MBES log list of all files that do not match the SPL name; without duplicated and skip files
- **SSS\_NotMatching:** SSS log list of all files that do not match the SPL name; without duplicated and skip files
- **SBP\_NotMatching:** SBP log list of all files that do not match the SPL name; without duplicated and skip files
- **MAG\_NotMatching:** MAG log list of all files that do not match the SPL name; without duplicated and skip files
- **SUHR\_S\_NotMatching:** SUHR log list of all files that do not match the SPL name; without duplicated and skip files
- **Duplicated\_SPL\_Name:** List of all duplicated SPL name
- **Duplicated\_Sensor\_Data:** List of all duplicated sensors files; Based on the start time
- **SPL\_Problem:** List of all SPL session without a line name in the columns LineName, are empty or too small
- **Skip\_SSS\_Files:** List of all SSS data that have a file size less than 1 MB
- **Wrong\_SBP\_Time:** List of all SBP data that have a wrong timestamp



# mergexlsx-spl

This tool will merge the vessel final spreadsheet that was created by the splensors tool. Just select the folder that have the xlsx that need to be merge and the tool will create a new merge spreadsheet named "sheets\_combined.xlsx"



# renamesensors-spl

- This tool will rename the sensors files based on the *Full\_List* sheet in the final spreadsheet created by the splsensors tool. Before using it, please QC all the data in this sheet, remove if necessary the data that not need to be renamed and then use the tool.
- The tool will use the columns in the sheet to automatically rename the file. [Sensor Start, Vessel Name, Sensor Type, SPL LineName]
- The tool have a option to rename back the sensors name using the log that the tool have created.

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Reverse Renaming Options



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# renamesensors-spl

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Reverse Renaming Options




Rename tool for sensors using the spreadsheet generated by splensors

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Rename tool for sensors using the spreadsheet generated by splensors



Rename Options Reverse Renaming Options

Rename Options

**sheets\_combined.xlsx File Path**  
This is the merge file with all the Final spreadsheet generated by the splensors tool.  
Please be sure that you have QC the spreadsheet!

C:\Users\patrice.ponchant\Downloads\LOGS\merge\sheets\_combined.xlsx

Browse

**Filename**  
File name to be use to rename the file.  
You can use the following wildcard to automate the linename:  
[V] = vessel;  
[LN] = Linename from SPL;  
[ST] = Sensor Type;  
[SD] = Start Date from the sensor (yyyyMMdd\_hhmmss);  
[N] = sequence number if the sensor have split.  
e.g: [V]\_[LN]\_[SD]\_ASOW.

[V]\_[LN]\_[ST]\_[N]\_ASOW

**Sequence Number Format**  
Sequence number format for split files. e.g.: 000 or 00

000

**Timestamp Format**  
Timestamp format to be use in the file name.  
e.g.: %Y%m%d\_%H%M%S --> 20201224\_152432

%Y%m%d\_%H%M

Put the needed information in this windows to rename the sensors files.



# renamesensors-spl


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 Rename tool for sensors using the spreadsheet generated by splensors

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**Rename tool for sensors using the spreadsheet generated by splensors**  
Rename tool for sensors using the spreadsheet generated by splensors

Rename Options Reverse Renaming Options

**Reverse Renaming Options**

This option is to be used in csae or you need to rename back the renamed files

**reverse\_rename.csv File Path**  
This is the file generate by this tool after you have rename the files.  
The file can be edited to remove what you do not need to reverse back the name.

This option can be use if the sensors files need to be renamed back.

Note: During the rename process, the tool create o csv file named "reverse\_rename.csv" in the same folder that the final spreadsheet use to rename the files. Use this csv to rename back the files.

