

Shell on File Close

If you have problems with the "shelling", could send me a copy of the startup log file and the shell command file.

To insert decoded data into a database you need to:

1. Create a Tag for the and data field you require in your data base

The screenshot shows the AIS Decoder interface with a table of decoded data. A dialog box titled 'Input Field' is open, prompting the user to 'Change to your name (if you wish)'. The dialog contains a text field labeled 'Latitude - Value' with the text 'lat_1_2' entered. The background table shows various AIS data fields:

AIS Payload	13aGuubP11PEE2PMc	168 bits (21.8-bit words)
AIS		Class A (Scheduled)
Rep		
MM		
MID		Kingdom of the)
Nav		ing engine (Rule 23(a) or
Rate		ation available (default)
Spe		
Position Accuracy		High (< 10m)
Longitude	4.6634	4° 39.806' E
Latitude	51.8901	51° 53.407' N
Course Over Ground (COG)	270.4	° (degrees)

2. Create a Csv output file

The 'Filtered Output' dialog box shows the following settings:

- Time Stamp: dd/mm/yyyy hh:mm:ss
- Format: File
- File:
 - ☒ File Output
 - ☐ FTP
 - ☐ NMEA
 - ☒ CSV
 - ☐ Tagged
 - ☒ Scheduled
 - ☐ Range Filtered
- ☒ +Time Stamp
- ☒ Head
- ☐ Delimiter
- ☐ GIS Filtered

3. Schedule the Output

The 'Scheduler' dialog box shows the following settings:

- 1 Minutes
- 15 Time to Live
- ☒ Output on MMSI change

4. Set the Output file to execute a Shell command on close

The 'Output File' dialog box shows the following settings:

- File Name
- New File
- ☐ Rollover
- ☒ Shell

Keep it simple by using Arundale\Ais Decoder\Settings for the .ini files and Arundale\Ais Decoder\Output for Output files including Shell command and script files (because they will likely be using/creating output files).

Example 1

The example initialisation file (shell.ini) defaults to the Shell file shellcommand.cmd in %appdata%\Arundale\Ais Decoder\Output. You can change this by clicking New File.

The actual location of %appdata% can be found by → Run a command shell (start/Run, then "cmd") and type "set appdata"

The sample command file (shellcommand.cmd) contains

cmd.exe /C "copy "output.csv" "output copy.csv""

The sample command file (shellcommand.cmd) runs the command string interpreter (cmd.exe) which copies the output file to a renamed file.

The Process Directory (the directory of the command prompt) is the same as the directory containing the Shell File. This is to keep the dos prompt in the same security context as the user. You will need to create your own command file containing your script to insert the appropriate records into your database.

Cmd.exe should be used as the command string interpreter (dos prompt).

/K keeps the console open after executing the command, when debugged it should be changed to /C, which will close the console after execution of the shell has completed.

Note the Shelled process runs synchronously so AisDecoder will be stalled until the shell completes. This is required in order for the output file not to be re-opened by AisDecoder before the shell process has finished processing the output file.

Example 2

A second example demonstrates how to name output files after they have been created by timestamping the file. The initialisation file Shell_vbs.ini is used.

The file shellcommand_vbs.cmd demonstrates how to run a script (in this case VBS). Place this file in the %appdata%\Arundale\Ais Decoder\Output folder.

The file contains

cmd.exe /C "logfiledate.vbs"

and executes the VBS script file within the DOS shell context.

Place the VBS script file (logfiledate.vbs) in the same folder as the .csv file it is copying.

The .vbs file contains a script to copy the output file (output.csv), immediately after it is closed (normally by the scheduler), to output_yyyymmdd_hhmmss.csv. This may appear rather complicated but is required in order for internationalisation formatting issues to work properly. You could use any other scripting language if your PC supports it to for example make an entry into a database

Further information can be found below.

The Shell uses the windows [CreateProcess api](#)

The Security context is as the calling program.

Command string interpreter [CMD.exe](#)

More commands [Command Shell Overview](#)

[Download Sample Files](#) in ShellOnFileClose.zip

File	Place in Folder
shell.ini	%appdata%\Arundale\Ais Decoder\Settings
shellcommand.cmd	%appdata%\Arundale\Ais Decoder\Output
shell_vbs.ini	%appdata%\Arundale\Ais Decoder\Settings
shellcommand_vbs.cmd	%appdata%\Arundale\Ais Decoder\Output
logfiledate.vbs	%appdata%\Arundale\Ais Decoder\Output

For simplicity, keep the Command file in the same folder as the output file