WinFrog Device Group:	**Sound Velocity**
Device Name/Model:	**Applied Microsystems SVP Logger**
Device Data String(s) Output to WinFrog:	See Telegram Specification section below.
WinFrog Data String(s) Output to Device:	Outputs a sound velocity to a text file.
WinFrog Data Item(s) and their RAW record:	none

DEVICE DESCRIPTION:

This driver is designed to read the above-mentioned data from the Applied Microsystems SVP and to output the sound velocity to a text file. The file is created and logging begins when you click the start button in the configuration dialog. Logging is stopped and the file is closed when you click the stop button in the configuration dialog.

The decoded data section of the I/O Device window has lines to display the time of the last response, the logging status, the total number of records logged, the last depth and sv logged, the last received latitude and longitude and ship speed. The file name of the log file is also displayed.

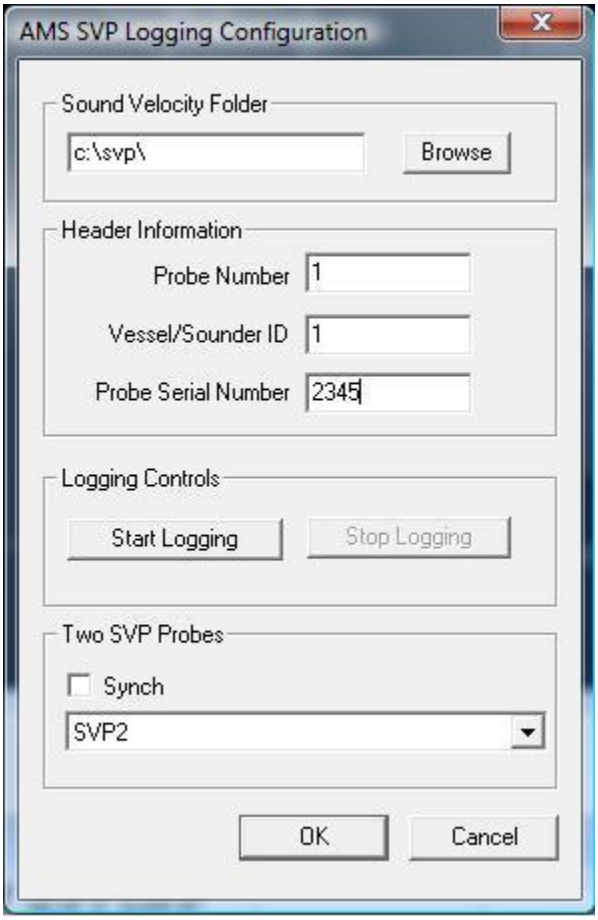
The logging for two SVP logger devices can be synchronized so that logging can be started and stopped from a single dialog.

DEVICE CONFIGURATION INSTRUCTIONS

WINFROG I/O DEVICES > EDIT I/O:

One serial port
Configurable Parameters

WINFROG I/O DEVICES > CONFIGURE DEVICE:



Browse – Selects the directory into which the sound velocity profile will be logged.

Probe Number – An integer identifying a specific probe.

Vessel/Sounder ID – An integer identifying a specific Multibeam sensor or vessel.

Probe Serial Number – The serial number of the probe.

Start Logging – Creates a file and begins logging the output of the device to the file.

The file name is programmatically determined as follows:

x-yyyy-ddd-hhmm.SVa

x-Vessel/Sounder ID
yyyy- year
ddd- Julian day
hhmm – hour and minute
a – probe number

A standard header is written to the file prior to data logging.

File Header:

Ship Speed 0.000000 kt	SS.sssssss
Latitude 32.0000000	DDD.ddddddd
Longitude -117.0000000	DDD.ddddddd
09:39:46.2	HH:MM:SS.s
09/03/2009	DD/MM/YYYY

Data is logged in the following format: xxxx.x yyyy.yy

Where:

xxxx.x is depth in meters
yyyy.yy is sound velocity in meters per second

Stop Logging – Logging is terminated and the file is closed.

Synch – If there is more than one SVP logging device the logging of two devices can be synchronized. A list of other SVP logging devices is displayed in the combo box to the right of the Synch checkbox. Check the Synch checkbox and select the device you wish to synchronize with from the combo box. You will now be able to start and stop logging both devices from the configuration dialog of either device.

Adding the Applied Microsystems SVP logger device does not create a data item. You must attach this device to a vehicle in order to get position updates to complete the header.

TELGRAM SPECIFICATIONS:

Input telegram from AMS SVP

pppp.ppSvvvv.vv<CR><LF>

Where:

pppp.pp	= depth in meters
S	= Space
Vvvv.vv	= sound velocity m/s