

## Collecting Data

- On the **File** menu, click **Collect Data**.
- On the **Options** menu, click **Load**.
- Select the **default.ini** file. Click **Open**.
- On the **Options** menu, click **Edit Data Options**. On the **ADCP Setup** tab select the default ADCP Command File to load (use the **Browse** button). The following is a brief description of each file.

File Name	Description
OS38BBDEF	Default setup for an OS 38kHz ADCP in the highest precision (broad bandwidth) but reduced range profiling mode.
OS38NBDEF	Default setup for an OS 38kHz ADCP in the lowest precision (narrow bandwidth) but extended range profiling mode.
OS75BBDEF	Default setup for an OS 75kHz ADCP in the highest precision (broad bandwidth) but reduced range profiling mode.
OS75NBDEF	Default setup for an OS 75kHz ADCP in the lowest precision (narrow bandwidth) but extended range profiling mode.
OS150BBDEF	Default setup for an OS 150kHz ADCP in the highest precision (broad bandwidth) but reduced range profiling mode.
OS150NBDEF	Default setup for an OS 150kHz ADCP in the lowest precision (narrow bandwidth) but extended range profiling mode.
BB75DEF	Default setup for a BB 75kHz ADCP to provide the most range with the optimal precision.
BB150DEF	Default setup for a BB 150kHz ADCP to provide the most range with the optimal precision.
BB300DEF	Default setup for a BB 300kHz ADCP to provide the most range with the optimal precision.



**NOTE.** These files can also be used for the OS and BB Oil Rig systems but you must first open the file (right click on file and select open) and modify the EZ command from EZ1020001 to EZ1111111. This new setting will enable the use of the internal heading, pitch, and roll sensors.

- As a minimum, set the options for **Communications** (ADCP and NMEA Com Port), and **Transforms** (Heading Source). Press **OK**.
- On the **Options** menu, click **Save As**. Save the VmDas setting to your own \*.ini file.
- On the **Control** menu, click **GO** to begin collecting data.

## Reprocessing Data

- On the **File** menu, click **Reprocess Data**.
- On the Reprocessing Tool Bar, click the **View/Edit** processing settings button.
- Select the desired options for reprocessing the data.
- Click the **Reprocess Data** button on the tool bar to start reprocessing the data file.

## Playback Data

- On the **File** menu, click **Playback Data**.
- Select the data file to view. VmDas will automatically search for \*.enr, \*.enx, \*.sta, and \*.lta files. You may also enter \*.\* to search for all files, or enter any filename as long as the file contains valid ADCP data in the proper format. See File Naming Conventions for details of what each file extension means.
- On the Playback Tool Bar, click **Play**.

## File Naming Conventions

Data files produced by VmDas during **data collect** mode has the following filename format:

DeployName000\_000000.Ext,

Where:

DeployName is a user-entered name for the deployment (up to 128 characters),  
 000 is the deployment number (changes with each stop/restart),  
 000000 is the file sequence number, which is incremented when the specified maximum file size is reached, and  
 Ext is the file extension, and reflects the type of data in the file

Reprocessed files have a similar format:

DeployName000\_000\_000000.Ext,

Where:

000 represents the reprocessing number, and gets incremented each time the same raw data is reprocessed. The other fields are the same as for the data collect mode format, and identify the raw data source that was reprocessed.

The file extensions have the following meaning:

.ENJ ADCP raw after adjustment by user-exit application.  
 .ENR raw ADCP data file  
 .ENS ADCP data after having been screened for RSSI and correlation by VmDas, or adjusted by the customer via a User Exit. Also has NAV records merged into the ensembles from the .NMS file.  
 .ENX ADCP single-ping data (plus NAV) after having been bin-mapped, transformed to Earth coordinates, and screened for error velocity, vertical velocity, and false targets. This data is ready for averaging.  
 .LTA ADCP (plus NAV) data that has been averaged using the long time period specified in the options.  
 .N1J, .N2J Raw NMEA data after being adjusted by user-exit application.  
 .N1R, .N2R Raw NMEA data files - text files; includes ADCP time stamps with the following format:  
 \$PADCP,eeee,yyyymmdd,hhmmss,-nnnnn.nn<CR><LF>  
 where:  
 eeeee = ADCP ensemble number  
 yyyymmdd = Year, Month, Day (date of ADCP ping)  
 hhmmss.ss = Hour, minute, seconds.hundredths (Time of ADCP ping)  
 -nnnnn.nn = (signed) PC clock offset from UTC in seconds; includes time zone difference).  
 The .N1R extension is used for single-port NMEA data collection, or for GPS position data (Nav) in dual-port collection mode. The .N2R extension is used for Roll/Pitch/Heading (RPH) data collection when using two serial ports for NMEA data collection.  
 .NMS Binary format NAV data file after having been screened and pre-averaged.  
 .STA ADCP (plus NAV) data that has been averaged using the short time period specified in the options.  
 .VMO The option settings used for collecting the data (text file).  
 .VMP The option settings used for reprocessing the data (text file).