USER GUIDE FOR NETmc MARINE

Digital Dive Log DDL software





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1. Set-up

THIS PRODUCT MUST BE EARTHED

- 1.1. Mount the **DVR** in a suitable rack mount system, supporting it at the rear as well as at the front. Ensure there is sufficient ventilation around the unit.
- 1.2. Connect the power supply. **Note:** we highly recommend connection to a UPS (uninterruptible power supply) to prevent data loss.
- 1.3. Connect audio and video input. We recommend that the best quality input is connected i.e. the feed should be 1V pk-pk and come directly from the camera or via a good quality video distribution amplifier.
- 1.4. Connect audio and video output.
- 1.5. Connect VGA monitor.
- 1.6. Power on.

IMPORTANT: Please plug in <u>and switch on</u> all video and audio input connections before switching on the DVR.

2. Introduction

The NETmc Marine Digital Dive Log (DDL) software is a software based event log and media controller allowing the management of a variety of NETmc Marine DVRs, with the option of controlling other NETmc Marine equipment

The events are actuated by use of a set of multi-functional buttons which can be individually configured with frequently used commands, hardware actions and workflows to enable the user to complete a set of tasks in a consistent and orderly fashion. The DDL software also generates "Dive Reports" in Docx and HTML formats, with optional hyperlinks to media files in the HTML report.

3. Overview

3.1. Hardware

The DDL software will work with several NETmc Marine DVRs including DVR Inspector, HD DVR Inspector, X-Ops and the DDL-R. The 73fifty is not supported directly; however it can be controlled when used in conjunction with a DDL-R.

3.2. Software

The DDL GUI has 22 configurable eventing buttons and two non configurable event buttons. Each of the buttons are multifunctional and can be independently configured to do either one or several of the following; instigate a media file, cause the event to be labelled as an anomaly, or instigate a Work flow instruction and outcome e.g. Take CP stab and record the value.

If a button instigates a media file, either a video recording or a still, the media file can be seen being generated in the õRecord Controlö panel, from where, if clicked, the media can be reviewed.

At any point in a Dive, the user can generate a report, this is done in the õPublishö tab, several reports can be generated, and these can be either in .docx format or as an HTML report. There is a bundled HTML with embedded hyperlinks to the media files. HTML reports are viewed in Internet Explorer.

NOTE: The DDL software can run without a video input, however the media controls will not work without a relevant composite video input.

4. <u>File Structure</u>

The DDL software is a õProjectö driven package, a project could be the inspection of a single asset or a year long drill support project. Within each project there can be one or several dives (max 999), all the log entries and media files are stored in the relevant Dive files which are then stored in the associated Project folder and data from all Projects are stored in a master Root folder.

NOTE: There is an automated file structure in the DDL software, do not delete folders or files without contacting your ROV manager for advice. The file structure is such that, changes to the global configurations must be made prior to creating a project. If a project is open when the configuration is made, the changes to the configuration will only apply to that project.

When delivered a root folder called õDDL Projectsö will already be set up on the õDataö (D) drive.

DO NOT CREATE PROJECT FILES OUT WITH THE ROOT FOLDER.

5. Description of GUI

The GUI is split in to five main areas, the Video Display in the bottom right hand corner, the Eventing Buttons, the Recording controls, the Log Table and the Tabs line.

File Project Dive Log	Overlay	- 1 h l					
-I DG EVENTS		Publish Configure H	lelp				
Deck Checks	STORE C4	PACITY STATUS:		85.9%			
	#	TIME	T	Event	A	Comment	REC 00:0 1:08: 14 STOP
Off deck	001	12/06/2013 14:15:55.65	EV	Deck Checks		ROV deck checks completed	
In Water	002	12/06/2013 14:21:50.65	EV	Off deck	S1	ROV off deck - not in water	Recordings In Dive Time
	Ø 003	12/06/2013 14:24:42.46	WI	In Water	RS	ROV in water	SecondTDM20130612142542.avi 00.04.05.10
At site	004	12/06/2013 14:24:42:55	RS EV	Hecord Start		Record Start	SecondTDM20130612143942.avi 00:05:08:04
Out of TMS	2005	12/06/2013 14:23:31.82	EV	At site Dut of TMS		Where are you going?	SecondTDM20130612144442.avi 00:00:37:16 👻
	2009	13/06/2013 14:20:12:48	EV	Out of TMS		Touch down point	
At TUP						•	
Debris							
Crack Found							Clips In Dive Duration
Left site							
In TMS							
Anode TDP							STILL IMAGE GRAR
Pipe No.							Stills in Dive s
Button 13							
Button 14							
Button 15							PLAYBACK LIVE VIEW
Button 16							00:00:00:00
Button 17							
Button 18							Evt @ 00:00:80:00
Button 19							DemoClin20130613140202 avi
Button 20							Remote Controlled 73fifty Triggers:
ROV on surface							Trigger 1 💢 Trigger 2 💢
ROV on deck							einen aufen
ROOT Default							and the second of the
Add Time Event							
Manual Event	•						

5.1. Event Buttons: There are 22 standard configurable õEventö buttons on the left of the screen, all DVRs will have a default õdemoö set of buttons configured which can be overwritten with a company specific configuration. It is also possible to save several button files (button.dbf). These files will also be called button .dbf but will have a friendly name when loaded into the database. These saved files would have to be saved in an appropriate folder.

Below the 22 buttons are two extra buttons, firstly the õAdd Time Event" button, this can be used to record a pending event e.g. watching the lowering of an anchor so the exact time of touch down can be recorder; the "Add Time Event" window can be kept open all the time.

The second button is the õAdd Manual Log Entryö this allows on the fly events to be added that are not already on a pre-programmed button, such events are just logged as Manual Event in the log table. However, it is possible to launch an õEdit Manual Eventö window to complete the event details straight away, this is set up in the õConfigureö tab, see more in later chapter.

- 5.2. Recording Controls: On the right hand side of the screen are the recorder controls; a different section for each of Record (Master recording), Clip, Stills and Playback. All controls can be operated manually or via clicking on a suitably configured Event Button. Each section is split into two areas, the operational area with clickable controls and a display area where the most recent files are displayed; clicking on any of these files will make them play in the Video Display area. Whilst the recorded media is being played there is no display of the "live video".
- 5.3. Video Display: Media, including live video; video replay and stills, is shown in the Video Display in the bottom right hand corner of the screen.

Tip; there is an option to have a larger Video Display in the middle of the GUI, if this is enabled then, when replaying recorded media, the live video moves to the bottom right hand corner video display. More details on this are given later in the manual.



5.4. Log Table: In the centre of the GUI is the Event Log Table, this is a list of the events and is updated as buttons are clicked.

The content of the Log Table is dependent on the way the system has been configured, but basically, it displays at least one line every time an "Event Button" is clicked. Other entries will depend on the set up of the systems and may include logged entries of õVideo Lossö or õNo Encoderö.

The columns in the "Log Table" are also selectable, right click the title of a column and select the parameters for display.

If a log entry has an associated media file then this file can be played by right clicking on the file and clicking the appropriate command.

5.5. Tab Line: This displays the current dive log project/dive information and the various Windows Tabs used to set up the system.

6. Getting started - file structure

As supplied a new DVR will already have the "DDL Project" folder set up on the "Data" (D) drive this is where ALL DDL project and dive data will be stored.

NOTE: DO NOT create another root folder, there should only be one "root" location.

6.1. To check your DVR has this file right click on "My Computer" on the desk top and expand the "Data" drive by clicking the + sign you should see the "DDL

😂 My Computer								
File Edit View Favorites Tools	Help							
🕲 Back 👻 🕥 👻 🏂 🔎 S	earch 📂 Folders							
Address 😼 My Computer								
Folders ×	Files Stored on This Computer							
Desktop My Documents My Computer Source Disk (C:) Source Disk (C:) Source Disk (D:)	Shared Documents Ovr's Di							
 ■ → LICDONGLE (E:) ■ ★ DDL manual pics on '192.168 ■ ↓ Control Panel ■ → Shared Documents ■ → dvr's Documents 	Local Disk (C:) Data (C Devices with Removable Storage							
Wy Network Places Recycle Bin	LICDONGLE (E:)							

Projects" folder as below:

6.2. Now double click on the "DDL Projects" folder, this will show files that were automatically loaded during the setting up of the "DDL Projects" folder; see below.

😂 DDL Projects				
File Edit View Favorites Tools	Help			
🕒 Back 🝷 🕥 🕤 🏂 🔎 S	iearch 📂 Folders 🛄 🔹			
Address 🛅 D:\DDL Projects				×
Colders Colders	button.dbf DBF File 18 KB vorelay.xnl xPL bocument 2 KB	button.dbf.old OLO File 18 KB OUD File OLD File 2 KB	events.dbf Defi File 9K3 Defi File 1K3	events.dbf.old 9KB 9KB DBF File 110KB

DO NOT DELETE OR ALTER THESE FILES WITHOUT CONTACTING THE ROV OFFICE STAFF

- 6.3. Close Windows Explorer
- 6.4. Double click on the desktop short cut to "DDL" to open the DDL GUI.

6.5. Click on the õFileö tab then on õSelect Store Pathö in the drop down menu

8	NETmc Marine Digital Di	ve Lo	og : Pi	roject=No Proje	ct Selected I	Dive=No Dive Selected I	oc=N/A AnomPr	efix=N/A		
F	ile Project Dive Log	Ove	rlay	Publish Configur	re Help					
	Select Store Path		1						RECORD CONTROL	
	Recent Store Paths 🕨								 	
	License	e		TIME	T	Event	A	Comment	Ret OOLOO.OO	
		_							 Recordings In Dive	Time
	EXIC								 	
	Button 4									
	Putton 5									
	Button 6									_

B NETmc Marine Digital Dive Log : Project=No Project Selected Dive=No Dive Selected Loc=N/A AnomPrefix=N/A File Project Overlay Configure Help RECORD CONTROL LOG EVENTS REC 00:00:00:00 # TIME T Event Α Comment Recordings In Dive Time ct Store Path Root ? 🔄 🔇 🎓 📂 🔜• Save in: 🥪 Data (D:) DDL Projects Ò CLIP CONTROL My Recent Documents 100:00:00 B Clips In Dive Desktop My Documents STILL IMAGE GRAB Stills In Div 10 My Computer PLAYBACK \rm 🔳 File name root.dbf ~ Save 00:00 Store Root Paths (*.dbf) ~ Save as type My Net Cancel Len Evt @ Trigger 1 🛛 💢 Trigger 2 × < NETmc Marine Digital D 🛃 start 🔰 🦉 Select_store 🔊 🗊 🥹 🏷 🔽 🕼 🔛 🔅 🛞 NE

and navigate to the õDDL Projectö folder as below.

NOTE: the file name õroot.dbfö is auto-generated **DO NOT CHANGE THIS FILE NAME**

6.6. Click on the "DDL Project" folder and click "Save"

NOTE: These files are used as templates for the projects and dive files DO NOT DELETE OR AMEND THESE FILES

We are now ready to configure the DDL software.

7. Configuring the software

In this section we will look at how to;

- set file durations and pre-recording durations
- investigate optional functions
- learn about Events

7.1. DVR selection and configuration

The DDL software can be used with a range of DVRs so the first thing to do is to check the software is configured for your DVR.

7.1.1. Click on the õConfigureö Tab

17	Орег	<u>Confia</u>	Select	: Video	tab.bmp	- Paint										
6	NET:	mc Marin	e Digita	l Dive	Log : Proje	ct=No Pro	oject	Select	ed Dive=	No Dive Sele	cted Lo	c=N/#	Anom	Prefi	x=N/A	
	File	Project	Dive	Log	Overlay	Publish	Con	figure	Help							
	LOG	EVENTS			STORE CAL	PACITY ST		Custor	nise User	Events						
		DIVE S1	rart -					Custo	nise Syste	em Events						
		ROV IN W	/ATER		#			Video	Encoder C	onfiguration		-		A		Co
		Dutto						Select	Video Enc	oder Source		•				
		Datto	1.2					Remot	e Control	ed Devices		•				
		Butto	n 4					Option	ic.							
		Butto	n 5				-	opdor								
		Butto	n 6													
		Butto	n 7													
		Datto	n r													
		Butto	n 8													
		Butto	n 9													
		Buttor	10													

then select "Video Encoder Configuration" from drop down menu; a new window will pop up as below.

ENCODER CONFIGURATION									
Encoder Selection & Configuration (DVRi) **									
DVRi DVRiHD DDLR XOPS-CH1 XOPS-CH2 XOPS-CH3 XOPS-CH4 DDLR-M XOPS-STREAMER									
Signal Source: Encode Format: Encode Quality:									
COMP-PAL O MPEG-1 O 3Mbps Adhoc									
COMP-NTSC MPEG2 Mbps bps (Video)									
YC:AUTO MPEG2-PKT SMbps									
SDI SDI SDI									
UseRemoteEncoder: 127.0.0.1 OVERLAY DEVICE: CDM1:									
SCAN SELECTED ENCODER									
Video / Clip And Still Configuration									
Video Recording Mode:									
SINGLE FILE O MULTI-FILES O 300 SECS									
Clip Recording Mode:									
NO LIMIT CLIPS TO C 7200									
NO PRE-RECORD C ADD PRE-RECORD C O - Start Recording From Closest Reference Image									
Apply									

- 7.1.2. The correct tab for your DVR type should already be displayed, if not click on the tab associated to your DVR type, for the X-Ops select the tab associated to the specific X-Ops channel required.
- 7.1.3. Select the Signal Source of the camera
- 7.1.4. Select the encoder format.

NOTE; Selection of the encoder format may be decided by the clientøs specification, the companies standard settings or the application. Also some encoder formats may require specific codecs.

- 7.1.5. Select the Encoder Quality
- 7.1.6. The õUse Remote Encoderö is for future use; ignore this.
- 7.1.7. Video Recording Mode; What's the difference?

	SINGLE FILE	0	MULTI-FILES	۲	300 SECS
Clip Recor	ding Mode:				
	NO LIMIT	۰	LIMIT CLIPS TO	0	7200
1	NO PRE-RECORD	•	ADD PRE-RECORD	0	0 - Start Recording From Closest Reference Image 💌

If you click "Single File" the DVR will generate one long file for the duration of the recording; if you click "Multi-Files", and set a duration in seconds, then the DVR will create a set of chapters of the same duration e.g. 300sec = 5min.

WE STRONGLY SUGGEST YOU SELECT "MULTI-FILES"

Check with your ROV manager if there is a client or company designated setting for above

- 7.1.7.1.Clip Recording Mode
 - 7.1.7.1.1. When a clip is taken, either manually or by the pressing of an "Event Button", you can let the clip duration be controlled manually õNO LIMITÖ, this will generate very long files if you forget to stop the clip. Clicking õLIMIT CLIPS TOö and selecting a duration in seconds, ends the clip after the predetermined time.

WE SUGGEST YOU SELECT THE "LIMIT CLIPS TO" OPTION.

Check if there is a client or company designated setting for this

7.1.7.1.2. When a button is clicked that actuates a "Clip" the beginning of the clip may be lost, this is just down to reaction time. DDL allows you to start the clip some time before the button was clicked by up to 4seconds. Click "ADD PRE-RECORD" then select the desired pre-record time.

Check if there is a client or company designated setting for above

7.1.8. If you have more than one DVR with which you use the DDL software e.g. a multi-channel X-Ops, you may want to configure each DVR differently. Once you have done this you can than just use the õSelect Video Encoder Sourceö option in the õConfigureö tab to select your DVR; see below.



7.2. DDL Optional functions

There are several options that can be set for the DDL software start-up condition, store paths etc, so lets look at these in turn.

Click on the õConfigureö Tab and select õOptionsö you will see the screen below. Here is a description of each section.

8 APPLICATION OPTIONS								
- PRODUCT INFORMATION - Module Name:	DDL							
Module Version:	1.0.36							
Module Date:	11 July 2013							
START-UP OPTIONS								
🔲 Open Last Project		Single Project Event Button Configuration						
Open Last Dive		Single Project Encoder Configuration						
Show Tooltips 🕑 Edit Log Event/Comments InLine								
Snow Univ Event Log	(Disable Split Preview/Log) Menu							
STORE PATH (Rase Folder (Containing Projects)							
	containing Projects)							
	9018							
REMOTE		CAUTION: REMOTE ENCODER OVERRIDE						
WORKFLOW LOCKS AND C	CHECKPOINTS							
Log Entry Time Format:	dd/MM/yyyy HH:mm:ss.ff	RESETTO DEFAULT						
🗹 Always Edit MANUA	L Log Event After Capturing MetaD	ata						
🔽 Do Not Allow Partial	y Completed Workflow Events in Lo	og (Do It Later)						
Remote Controlled Devices (mediaNET General Purpose Contro	Module Support)						
💌 Enable 73fifty Trigge	r 1 🛛 🗹 Enable 73fifty Trig	gger 2						
IP 194.36.79.207	IP 194.36.79.207							
ID a	ID b							
	Apply	Cancel						

7.2.1. Start up options;

- 7.2.1.1.õOpen Last Projectö; if this box <u>IS</u> ticked then the software will open õinö the same project as you were in when you closed the application. If it IS NOT ticked, the software will open with no project selected.
- 7.2.1.2.õOpen Last DIVEö; if this box IS ticked then the software will open õinö the same DIVE as you were in when you closed the application. If it IS NOT ticked, the software will open in the project but will need you to select a dive.

- 7.2.1.3.õShow Tooltipsö; this allows you to turn on and off tips that appear in parts of the software when you hover the mouse over them.
- 7.2.1.4.õDisable Split Preview/Log ó Show Only Logö; by default the DDL software has a large video viewing area above the log table, as seen below:



ticking this box will remove the video screen and extend the log to the top of the page.

If you **do not** tick this box, it is possible to click and drag the log table up the screen, in doing this the video area will decrease proportionally, as shown below:

🕲 NETmc Marine Dig	gital Dive Log	: Project=No Project	Selected Dive	-No Dive Selected Lo	ic=N/A AnomPre	fix=N/A		
File Project Owe	Log Overl	ay Publish Configure	Help					
LOG EVENTS				- South Street	No Karlo	N. Co	RECORD CONTROL	
DIVE START			124		REPARTING A	W.S.	REC 00:00:0	0:00 570 8
ROV IN WATER			10		and the	(it)		
Button 3				and the second			Recordings in Dive	lime
Button 4								
Button 5								
Button 6				as all y			CLIP CONTROL	
Button 7				to a state of the		1952	00:00:0	S:00 STOP
Button 8							Clips In Dive	Duration
Button 9	#	TIME	T	Event	A	Comment		
Button 10								
Button 11							STUL MAGE GRAB	
Button 12							Stills in Dive	8
Button 13								
Button 14								
Button 15							PLAYBACK	LIVE VIEW
Button 16							 00:00:t	00:00
Button 17							Len DO:0	3:00:00
Button 18							Evt@ 00:0	à:00:00
Button 19							Encoder DOL R	-M Ready
Button 20							Remote Controlled 73fifty	Triggers
ROV OUT OF WATE	R						Trigger 1 💢 T	rigger 2 💢
DIVE END								
A007 Delault							NE	MC
Add Time Event								
Add Manual Log En	TY C							INE

- 7.2.1.5.õShow DISK Space in LogOnly Modeö; with the õDisable Split Preview/Log ó Show Only Logö box ticked; this function allows you to display the available space left in the allocated storage device as a fraction of the original space capacity.
- 7.2.1.6.õSingle Project Event Button Configurationö; Each Project can have its own set of buttons if you want the Project buttons to apply to all dives tick this box.
- 7.2.1.7.õSingle Project Encoder Configurationö;

NOTE: This is **not** applicable to the DDL-R.

- 7.2.2. Store Path (Base Folder Containing Projects);
 - 7.2.2.1.LOCAL: From the factory this will display "D:\DDL Projects" unless changed by user.
 - 7.2.2.2.REMOTE;

NOTE: This is **not** applicable to the DDL-R

7.2.3. WORKFLOW LOCKS AND CHECKPOINTS

- 7.2.3.1.Log Entry Time Format; the DDL software times each system and user event to 1000th of a second, this allows the events to be logged in the correct sequence if multiple events happen at the same time. However the format can be changed for display purposes here.
- 7.2.3.2.õAlways Edit MANUAL Log Event After Capturing METADataö; There is an õAdd Manual Eventö button on the main GUI, just below the 22 buttons, this is used for on-the-fly adding of events,, basically unexpected events. If you tick this box, using the "Manual Event" button will automatically open a new screen that allows you to edit the description of the "Manual Event" there and then. If this box is left unticked, the text "Manual Event" will be entered in to the log.
- 7.2.3.3.6Do not allow Partially completed Workflow events in Log"; with this box ticked the operator is forced to perform a "Workflow Event" or at least "Do it Later" with it un-ticked he can ignore the "Workflow" requirement by clicking "Apply"
- 7.2.4. õRemote Controlled Devices (mediaNET General Purpose Control Module Support)ö;

This applies when using a DDL-R, this section allows for the enabling to trigger up to two external 73 fifty DVRs via a 12V source in the DDL-R. This area is for information only and is greyed out. Ignore this section if you do not operate 73 fifty DVRs.

Click "Close" after applying any changes made.

7.3. Events Description

An "Event" is created each time one off the Event buttons on the GUI is pressed. Each event is allocated a unique two-digit alpha-numeric code and a description; these will be used in setting up the button configurations. There are two main types of events õSystem Eventsö and õUser Events".

7.3.1. System events

These are mostly used in the back ground of the system; checking the operation of the DVR hardware or the video signal e.g. if a button is configured to start a clip, then a system event called oclip starto or ocso will be logged in the back ground. These events can be displayed in the log file but tend to clutter up the log and so it is not recommended to display the majority of them in the log. However, some system events might be useful to be displayed in on screen log e.g. õVideo Signal Lostö or õVLö. See below for table.

đ	CUS	TOMISE	SYSTEM EVENT	IS			
[Inc	clude	Event	Description	S	howIn Overlay	ShowIn Export
							False
							False
							False
							False
							False
							🔄 False
		False	BR				False
							False
							🔄 False
	~	True	RS	Record Start		False	False
	~	True	RE	Record End		False	False
							False
							False
	~	True	BX	Record Error		False	False
							False
	✓	True	CF	Clip File \${clipFile}		False	False
	✓	True	CE	Clip End \${clipFile}		False	False
	~	True	CX	Clip Error		False	False
							False
	~	True	PF	Still File \$(stillFile)		False	False
							False
	~	True	VL	Video Signal Lost		False	False
							💽 False
							💽 False
		False					🔄 False
(ADD	SYSTEM	EVENT	APPLY RESET CLOSE			

NOTE: It is envisaged that only a designated system manager would configure the "System Events" or add a new "System Event".

7.3.2. User Events

õUser Eventsö are created by the user, these are related to the operation in hand e.g. Visual Inspection or Taking of CP readings etc. associated codes could be VI and CP. The system checks all new codes to ensure they are not duplications of existing codes.

The Events configuration is done under the "Configuration" tab, select "Customise User Events".

6	CUSTO	MISE US	SER EVEN	ITS				
	Inc	clude	Event	Description	IsAnomaly	ShowIn Overlay	ShowIn Export	
	 Image: A start of the start of	True	EV	Event	False	True	True	
	~	True	\sim	All Other Events	False	True	True	LADD
	V	True	WI	ROV in Water after launch - start of billing period	False	False	True	
	~	True	W0	ROV on surface prior to recovery - end of billing period	False	False	True	
								EDIT
								W0
								DELETE
				APPLY RESET	CLOSE]		
						,		

- 7.3.3. To create or edit a õUser Eventö, click the õConfigureö tab then õCustomise User Eventsö, you will see a table with two default events, õEVö and õXXö; these cannot be deleted but can be edited. All events buttons default to õEVö, this will become clearer when we look at Button configuration. There will be two further events in the table, õWlö for õROV in Waterö and õWOö for õROV on surface prior to recoveryö, these are just examples left in and CAN be deleted if preferred.
- 7.3.4. The best way to understand creating user event is to make one; let s create a new õUser Eventö, called õCRö and give it a description of õCrack Foundö.
 - 7.3.4.1.Click the õADDö button and type õCRö in the õEVENTö window

DIVE STAI	RT # TIME T Event
ROVIN	CUSTOMISE USER EVENTS
Butt	🚳 ADD USER EVENT TYPE
Butt	EVENT: CR
Butt	PROPERTIES period
Butt	INCLUDE IN LOG: include events of this type in the event log IS ANOMALY: force eventType to always be an anomaly
Butt	SHOW IN OSD display events of this type in overlay SHOW IN EXPORT: include this event type in reports
Butto	
Butte	APPLY CANCEL
Butte	
Butte	

7.3.4.2.Now type õCrack Foundö in the õDESCRIPTIONö box.

Now let so look at the properties we want to allocate to this event type.

- 7.3.4.3.Ticking õINCLUDE IN LOGö will populate the log table with the description programmed in to the button to which we allocate this type of event, so we will nearly always want to tick this box.
- 7.3.4.4.Ticking õIS ANOMALYö will flag this type of event as an anomaly; finding a crack would generally be considered an anomaly so we would tick the box if appropriate.
- 7.3.4.5.The DVR can be hooked up to a NETmc Marine videoTXT overlay, if it is then the DDL software can send text to the screen, we call this õOn Screen Displayö or õOSDö. If we want this event type to be displayed in the video image then we would tick the õSHOW IN OSDö box. See section later in manual for more details.
- 7.3.4.6.If we tick õSHOW IN EXPORTö then this event would, by default, be exported as part of the published report, however this can be overwritten when it comes to designing the report. See section on õPublishingö for more details.

🚳 ADD USER EVENT TY	PE 🗖 🗖 🗖
EVENT: CR	
DESCRIPTION: Crack Fou	ind
PROPERTIES	
INCLUDE IN LOG:	include events of this type in the event log
IS ANOMALY: [force eventType to always be an anomaly
SHOW IN OSD	display events of this type in overlay
SHOW IN EXPORT:	include this event type in reports
APPL	Y CANCEL

7.3.4.7.Once we have ticked the required boxes, click õAPPLYö, you will now see the new code in the table.



TIP; if we had tried to use the code õCFö the system would have alerted us that this code is already in use, it is the õClip Fileö code, and so we would not be able to use it. As shown below

🚳 ADD USER EVENT TYPE
EVENT: CF ALREADY IN-USE
DESCRIPTION:
PROPERTIES
INCLUDE IN LOG: 🔲 include events of this type in the event log
IS ANOMALY: D force eventType to always be an anomaly
SHOW IN OSD 📃 display events of this type in overlay
SHOW IN EXPORT: include this event type in reports
APPLY CANCEL

- 7.3.4.8. Let s create another new õUser Eventö, we will call it õD1ö and give it a description of õDebrisö.
- 7.3.4.9. Click the õADDö button and type õD1ö in the õEVENTö window, now type õDebrisö in the õDESCRIPTIONö box. Now letøs look at the properties we want to allocate to this event type.
- 7.3.4.10. õINCLUDE IN LOGö ó Yes
- 7.3.4.11. õIS ANOMALYö some debris will be considered an anomaly e.g. an anchor on a pipeline, however a sand bag under a platform might not be considered an anomaly, so lets say NO here
- 7.3.4.12. õSHOW IN OSDö ó Yes, if an overlay is connected.
- 7.3.4.13. õSHOW IN EXPORTö ó Yes.

7.3.4.14. Click Apply to close the window

Below is the table with the two new events.



7.3.5. Click "CLOSE" to save the new User Events

Once we get to the button configuration, we will see the affect of setting codes as being õIS ANOMALYÖ OR NOT.

8. Selecting a Project

Once the system has been configured we are ready to prepare a project which can either be a new project or an already existing one.

🔞 NETme Marine Digital Dive Log : Project =No Project Selected Div	ve=No Dive Selected Loc=N/A A	nomPrefix=N/A			
File Project Dive Log Overlay Publish Configure Help					
LOG EVENTS STORE CAPACITY STATUS:	.0%			RECORD CONTROL	
DIVE S 🔞 CREATE NEW PROJECT			Comment	REE 00:00:00:00	STOP
ROV IN Existing Projects			Comment		
Buth	NoDives	_		Recordings In Dive Ti	me
Buth				-	
Buth					
Butti					STOP
Butto **NEW** Project				Clips In Dive Dur	ation
PROJECT NAME:				-	
RECORD PREFIX:	ADD DATE/	ТІМЕ			
CLIP PREFIX:	ADD DATE/	TIME		STILL IMAGE GRAB	
STILL PREFIX:	ADD DATE/	ТІМЕ		Stills In Dive	s
Butte					
Butto SYSTEM/BOV:					
Butto VESSEL:		-			/E VIEW
Butto CLIENT:				00:00:00:00	5708
Butto CONTRACTOR:				Len 00:00:00:00	
Butto				Evt@ 00:00:00:00	
Butto				President DDI D M Darah	
Butto	Cancei			Bemote Controlled Z3fifty Triggers	
ROV OUT OF WATER				Trigger 1 💢 Trigger 2	×
DIVE END				Company and a	Received at
					100
				PR STAR STAR	
Add Time Event					4.0.0
Butten 23			<u> </u>		
For Help, click Help Topics on the Help Menu.					
🔊 Start 🚳 NETmc Marine Digital Div 🔞 CREATE NEW PROJECT	Second Contemporal (G:)	🦉 Project_Tab.bmp - Paint		« 🔛 🝠 🤣 🤣	🛃 V2 11:05

8.1. With the DDL GUI running, click on the õProjectö tab

8.2. For a new project select õNew Projectö from the menu. This will open a new window called "Create New Project", see image below.

👸 NETm	c Marine Digital Dive Log : Project=No Pr	oject Selecte	d Dive=No [Dive Selected Loc=N/A Anon	nPrefi	k=N/A
File	Project Dive Log Overlay Publish	Configure	Help			
LOC	New Project	TUS:		.0%		
	Select Project					
	Edit Project	ME	T	Event	A	Comment
	Close Project					
	Customise Event Buttons					
	Button 4	-				
	Button 5					
	Button 6					
	Button 7					
	Button 8					
	Button 9					
	Button 10				-	
	Button 11					
	Button 12					
	Button 13					
	Rutton 14					

Note there are no "Project Names" in the "Existing Projects" box.

- 8.2.1. Fill in the required information in the """NEW" Project" box
- 8.2.2. Give the project a name; we have used "First Project" as the name.
- 8.2.3. Add a "prefix" name e.g. "First" or other text for each media type of media file; this name will appear on all the media files for this project.
- 8.2.4. If you want to add date and time to the file name then tick the "ADD DATE/TIME boxes
- 8.2.5. Fill in the other data

ProjectName					NoDives	
Populate New	Project info fro	m selectio	n			
	n lojectinio noi	11 3010000				
"NEW" Project						
PROJECT NAME:	First Project					
RECORD PREFIX:	First			F	ADD E	DATE/TIME
CLIP PREFIX:	First					DATE/TIME
	Firet					
STILL FILLIN.	li noc				ADDI	ATE/TIME
DIVE DEFAULTS	FOR PROJECT					
SYSTEM/ROV:	WROV					_
VESSEL:	DP1					
CLIENT:	OilCo					
CONTRACTOR:	МуСо					

accordingly. Here is an example

8.2.6. Click "Create" to finish

You will now see the name of the project above the tab line, but no dive has been selected so the title says \tilde{o} Dive = No Dive selectedö.

👸 NETI	mc Marin	e Digita	l Dive	Log : Proje	ct=First F	Project Dive	=No Dive	Selected Loc=N/A AnomPrefix	:=
File	Project	Dive	Log	Overlay	Publish	Configure	Help		
	EVENTS			STORE CAL	PACITY ST.	ATUS:		.0%	
	DIVE ST	ABT					-		_
	ROV IN W	ATER		#		LIME		Event	1
	Buttor	n 3							
	Buttor	n 4							
	Buttor	n 5							
	Buttor	n 6							

8.3. Copy existing project

If there is an existing project (First Project), from which you want to copy all the names, events and button configurations, then;

- 8.3.1. Click on the project name you want to "copy" in the list; in this example the only one is "First Project", so click on this.
- 8.3.2. Tick the "Populate New Project info from selection" box.

The system will now populate the "New Project" with the names from the "First Project", give this second project a new name e.g. "Second Project".

Tip: copying a "Project" not only copies the names etc, but also copies the configuration, had we set up "user event" codes or configured the "Buttons" this data would also be copied into the new project.

- 8.3.3. Change the Media files "Prefix" to "Second" to reflect the new project name.
- 8.3.4. Click "Create" to close the window.
 Tip; up to the point that you click "Create" you can clear all the data by clicking "Clear Form".
 Note: when you create a new project then click "Create" DDL then opens that project automatically, even if you were in a different project before; however the other project is still "open". So you will now see, from the page header, that we are in Project = Second Project.....

CREATE NEW PROJE	ст <u>_ ×</u>
Existing Projects	
ProjectName First Project	NoDives 0
Populate New	Project info from selection
- **NEW/** Project	
PROJECT NAME:	Second Project
RECORD PREFIX:	Second 🔽 ADD DATE/TIME
CLIP PREFIX:	Second 🔽 ADD DATE/TIME
STILL PREFIX:	Second ADD DATE/TIME
DIVE DEFAULTS F	FOR PROJECT
SYSTEM/ROV:	WROV
VESSEL:	DP1
CLIENT:	OilCo
CONTRACTOR:	МуСо
Crea	ate Clear Form Cancel

- 8.4. You can Edit Project data at any time by clicking on the õEdit Projectö title in the õProjectö tab.
- 8.5. When a project is finished you can close it by choosing õClose Projectö in the õProjectö menu, but this is not a requirement, however it is good file management.

The next step is to configure the "Event Buttons" for the project. This should be done prior to opening a Dive.

- 8.6. If you want to select an existing project
 - 8.6.1. click on the õProjectö tab
 - 8.6.2. chose õSelect Projectö from menu
 - 8.6.3. then select the project name

9. Event Buttons - overview

9.3.

The "Event Buttons" are configurable, each one can be set to perform one or several functions. In this section we will look at the different functions available for programming these buttons and use.

NOTE; Configuring the event buttons prior to selecting a project stores the configuration in the root data base, configuring the buttons with a project open stores the configuration in the Project's Button configuration.

9.1. To configure the "Event Buttons" click on the "Project" tab.

👸 NETr	mc Marine Digital Dive Log : Project=Secon	d Project Dive=No I	Dive Selected Loc=N/A AnomPre	ìx=		
File	Project Dive Log Overlay Publish	Configure Help				
LOC	New Project	TUS:	.0%			RECORD CONTROL
	Select Project	UE T	Europh	A .	Comment	REC 00:00:2 1:2 :
	Edit Project	ME	Event	А	Comment	
	Close Project					Recordings In Dive
	Customise Event Buttons]				
	Button 4	-				
	Button 5					
	Button 6					CLIP CONTROL
	Button 7					200-00-10-2 I

9.2. Then select "Customise Event Buttons", you will now see the table below.

	EVENT (BUTTON NAME)	ETYP	E	ANON	I WFL	D EVENT COMMENT/MESSAGE (EVENT IS USED IF BLANK)	ACTION	ACTIONS	
Button 01:	Button 1	EV	•		Γ			7	EDIT
Button 02:	Button 2	EV	•	Γ	Γ			7	EDIT
Button 03:	Button 3	EV	•		Γ			7	EDIT
Button 04:	Button 4	EV	•		Γ			Y	EDIT
Button 05:	Button 5	EV	•		Γ			7	EDIT
Button 06:	Button 6	EV	•		Γ			7	EDIT
Button 07:	Button 7	EV	•		Γ			Y	EDIT
Button 08:	Button 8	EV	•		Γ			Y	EDIT
Button 09:	Button 9	EV	•		Γ			Y	EDIT
Button 10:	Button 10	EV	•		Γ			V	EDIT
Button 11:	Button 11	EV	•		Γ	[Y	EDIT
Button 12:	Button 12	EV	•		Γ			v	EDIT
Button 13:	Button 13	EV	•		Γ			¥	EDIT
Button 14:	Button 14	EV	•		Γ			7	EDIT
Button 15:	Button 15	EV	•		Γ			Y	EDIT
Button 16:	Button 16	EV	•		Γ			Y	EDIT
Button 17:	Button 17	EV	•		Γ			V	EDIT
Button 18:	Button 18	EV	•		Γ	[Y	EDIT
Button 19:	Button 19	EV	-		Γ	[Y	EDIT
Button 20:	Button 20	EV	-		Γ	[¥	EDIT
Button 21:	Button 21	EV	•		Γ	[*	EDIT
Button 22:	Button 22	EV	•		Г			*	EDIT
MANUAL:	Button 23	EV	•		Г	[7	EDIT
LOAD	FROM SAVE AS		A	PPLY		RESET CLOSE ROOT Default	ame:		

9.3. General description of table

The "Customise Event Buttons" table consists of a number of columns, some are purely tick boxes others have drop down menus and others are text fields. There are 22 numbered buttons and one button called "Manual", this is for manual events. We shall look at each column in depth here.

9.3.1. Button text

Column 1 (EVENT (BUTTON NAME)) of the "Customise Event Buttons" screen shows the text allocated to each button. By default the text in each button is "Button xx" where "XX" is the number of the button, except for the most basic operations this nomenclature would not be of much use so we can change the name of each button by simply highlighting the existing text and over writing it. The text we write on the button will be seen "in" the button on the DDL GUI. This text should be a short description (max 20 characters) of the event the button relates to e.g. "ROV in Water" or "Crack"

9.3.2. Event type

Column 2 (ETYPE) allows us to allocate an "Event Type" to the button. In section 6.3 we have seen how owe create events, we can now allocate each button with a general "EV" code or a specific code of our making e.g. the CR code we create for "Crack Found" or "D1" for Debris.

To allocate a different "Event Type" to a button, click the down arrow to the right of the existing "Event Type" code and select the new "Event Type".

9.3.3. Anomaly tick box

Column 3 (ANOM) lets us decide if the action of clicking the button should allocate the event as an Anomaly or not. When we created the "CR" code we ticked the "Is Anomaly" box, if we allocate an "Event Button" as a "CR" event, then the ANOM box beside it will default to being ticked, it will also be greyed out indicating that we cannot stop this type of event being an anomaly. When we created the "Debris" code "D1", we did not tick the "Is Anomaly" box, so the ANOM box is unticked, however some debris may be considered as anomalous so we could have more than one Debris button for different types of debris.

Here is an example; if we name button 01 as "Soft Debris" and button 02 as "Hard Debris" we could make the "Hard Debris" anomalous by clicking the "ANOM" button, but if we leave the "ANOM" button next to the "Soft Debris" button then it will not be an anomaly. In this way, the same "Event Code" can be used to fine tune the reporting in the log.

9.3.4. Workflow

Column 4 (WFLO), when this box is ticked the associated "Event Button" will open a new "Work Flow" window in the GUI, this window would contain additional instructions for the operator to follow or it may request an input of data from the operator. See the section 8.6.2 for more details.

9.3.5. EVENT COMMENT/MESSAGE (EVENT IS USED IF BLANK)

9.3.5.1.Workflow not selected

As described in 8.2 above, each button can have text written on it, this would generally be a short form name of the action e.g. "Soft Debris", if a more definitive description is required it can be written in the "EVENT COMMENT/MESSAGE " cell.

To replace the text, click and highlight the existing text and over write it for instance we named a button . "Soft Debris" so the extended description may be "Soft debris e.g. sand bag, plastic bucket, nylon rope"; this text would then appear in the Log Table for that event. the event can be edited to further specify the type of debris found.

9.3.5.2.Workflow selected

If the "Event Button" has it's WFLO box ticked then when the button is clicked in the GUI a new window pops up with further instructions. These instructions are in two parts part 1 is the instruction and part2 is the required feedback, the two parts of the text should be separate by two vertical lines"||", this character is normally found by pressing "Shift" and "\" keys on the keyboard.

An example of a workflow might be;

"Part 1" = "ROV leaving TMS"; "Part 2" "Where is the ROV going?", this would be entered as " ROV leaving TMS|| Where is the ROV going?"

See section 8.9 "Event Buttons Configuration Shortcut" for more on Workflows.

9.3.5.3.Action

Column 6; this is another tick box, it indicates that when the associated button is clicked an "Action" will be performed, see section 8.8 below for more on possible Actions.

9.3.5.4.Actions

Column 7; when the "Action" box is ticked the "Actions" window is un-greyed giving access to a drop down menu of possible actions. These actions are "System Events" and as such control the behind the scenes working of the DDLR. The list of actions include "73fifty trigger" or "Record Start".

9.3.5.5.EDIT

Note at the end of each line there is an EDIT button, clicking this brings up an "Button Configuration EDITOR" screen that allows all the above parameters to be set from a single screen; this is especially useful for setting up Workflows as you do not have to remember to include the "||" character.

9.4. Configuring event buttons

Let's configure a few buttons column by column.

- 9.4.1. Rename "Button 01" as "Deck Checks"
- 9.4.2. Leave it's "ETYPE as "EV"
- 9.4.3. Leave "ANOM" un-ticked
- 9.4.4. Leave "WFLOW" un-ticked
- 9.4.5. Type " ROV deck checks completed"
- 9.4.6. Leave "Action" box un-ticked; this makes the "Actions" box greyed out.
- 9.4.7. Rename "Button 02" as "Off deck"
- 9.4.8. Leave it's "ETYPE as "EV"
- 9.4.9. Leave "ANOM" un-ticked
- 9.4.10. Leave "WFLOW" un-ticked
- 9.4.11. Type " ROV off deck not in water"
- 9.4.12. Tick "Action" box
- 9.4.13. Select "S1 73fifty Trigger 1 Set " from the drop down menu. this would start a 73fifty Black Box.
- 9.4.14. Rename "Button 03" as "In water"
- 9.4.15. Change "ETYPE" to "WI" from the drop down list.
- 9.4.16. Leave "ANOM" un-ticked
- 9.4.17. Leave "WFLOW" un-ticked
- 9.4.18. Type " ROV in water start of billing"
- 9.4.19. Tick "Action" box
- 9.4.20. Select "RS record Start" from drop down menu. this will start the main DVR recording.
- 9.4.21. Rename "Button 04" as "At Site"
- 9.4.22. Leave it's "ETYPE as "EV"
- 9.4.23. Leave "ANOM" un-ticked
- 9.4.24. Leave "WFLOW" un-ticked
- 9.4.25. Enter the following into the "Comment" field "ROV at worksite"

👸 CUSTOMI	SE EVENT BUTTONS							_	. 🗆 ×
	EVENT (BUTTON NAME)	ETY	PE	ANOM	WFL	0 EVENT COMMENT/MESSAGE (EVENT IS USED IF BLANK)	ACTIC	N ACTIONS	
Button 01:	Deck Checks	EV	•			ROV deck checks completed			7
Button 02:	Off deck	EV	•		Γ	R0V off deck - not in water		S1 73fifty-Trigger1 S	Sı 💌
Button 03:	In Water	WI	•			ROV in water		RS Record Start	•
Button 04:	At site	EV	•			ROV at worksite			7
Button 05:	Button 5	EV	•						~
Button 06:	Button 6	EV	•				[□		~
Button 07:	Button 7	EV	•				[□		~
Button 08:	Button 8	E∀	•				[□		Y
Button 09:	Button 9	EV	•						Y
Button 10:	Button 10	EV	Ŧ		Γ				Y
Button 11:	Button 11	EV	Ŧ						Ŧ
Button 12:	Button 12	EV	Ŧ						Ŧ
Button 13:	Button 13	EV	•						-
Button 14:	Button 14	EV	•						-
Button 15:	Button 15	EV	•						~
Button 16:	Button 16	EV	-						~
Button 17:	Button 17	EV	-						~
Button 18:	Button 18	EV	•		Г				-
Button 19:	Button 19	EV	•						~
Button 20:	Button 20	EV	•		Г				-
Button 21:	Button 21	EV	•		Г				-
Button 22:	Button 22	EV	•		Г				-
MANUAL:	Button 23	EV	•	Г	Г				-
LOAD	FROM SAVE AS		۵	PPLY		RESET CLOSE ROOT Default	ne:		

9.4.26. Leave "Action" box un-ticked; this makes the "Actions" box greyed out.

This is how the screen should be looking now:

- 9.4.27. Rename "Button 05" as "Out of TMS"
- 9.4.28. Leave "ANOM" un-ticked
- 9.4.29. Tick the "WFLOW" box; NOTE the "Comments" field goes yellow, this is to indicate it is a workflow field.

COSTOPIL	SE EVENT BOTTONS							
	EVENT (BUTTON NAME)	ETY	PE	ANOM	WFL	D EVENT COMMENT/MESSAGE (EVENT IS USED IF BLANK)	ACTI	ON ACTIONS
Button 01:	Deck Checks	EV	•			ROV deck checks completed		7
Button 02:	Off deck	EV	•			ROV off deck - not in water	•	S1 73fifty-Trigger1 S
Button 03:	In Water	WI	•			ROV in water	•	RS Record Start 💌
Button 04:	At site	EV	•			ROV at worksite		_
Button 05:	Out of TMS	EV	•		◄			_
Button 06:	Button 6	EV	•					_
Button 07:	Button 7	EV	¥					_
Button 08:	Button 8	EV	¥					_
Button 09:	Button 9	EV	•					_
Button 10:	Button 10	EV	•					_
Button 11:	Button 11	EV	•					_
Button 12:	Button 12	EV	•					_
Button 13:	Button 13	EV	•					_
Button 14:	Button 14	EV	•					_
Button 15:	Button 15	EV	•					_
Button 16:	Button 16	EV	¥					
Button 17:	Button 17	EV	¥					_
Button 18:	Button 18	EV	•					_
Button 19:	Button 19	EV	•					_
Button 20:	Button 20	EV	•					_
Button 21:	Button 21	EV	•					_
Button 22:	Button 22	EV	•					_
MANUAL:	Button 23	EV	•					_
LOAD	FROM SAVE AS		4	PPLY		RESET CLOSE ROOT Default	ime:	

REMEMBER: there are two parts to a Work Flow event separated by "||".

- 9.4.30. Click in the "Comments" field and type "ROV out of TMS||Where are you going?" We will see how this looks in the log later in the manual.
- 9.4.31. Leave "Action" box un-ticked; this makes the "Actions" box greyed out.
- 9.4.32. Rename "Button 06" as "At TDP"
- 9.4.33. Leave "ETYPE" as "EV"
- 9.4.34. Leave "ANOM" un-ticked
- 9.4.35. Tick "WFLO" box
- 9.4.36. Click in "Comments" field and type "ROV at Touch down point||How far from pipe is ROV?"
- 9.4.37. Leave "Action" box un-ticked; this makes the "Actions" box greyed out.
- 9.4.38. Rename "Button 07" as "Debris"
- 9.4.39. Change "ETYPE" to D1, remember we created an event called "D1" "Debris" in the "User Events" section of the "Configure" tab.
- 9.4.40. Tick the "ANOM" box
- 9.4.41. Tick the "WFLO" box
- 9.4.42. Type "Debris found on route? ||List type of debris has it been cleared?"
- 9.4.43. Tick "Action"
- 9.4.44. Select "PX Still Image"
- 9.4.45. Rename "Button 08" as "Crack Found"
- 9.4.46. Change "ETYPE" to "CR", we created this event earlier

NOTE: "ANOM" tick box is already ticked as we configured the "CR" event type this way, it is also greyed out so cannot be un-ticked.

- 9.4.47. Tick "WFLOW"
- 9.4.48. Type "Crack found in pipe?||STOP laying -visually inspect log thickness of crack"
- 9.4.49. Tick "Actions" box
- 9.4.50. Select "CS Clip Start" from drop down menu
- 9.4.51. Rename "Button 9" as "Left Site"
- 9.4.52. Leave "ETYPE" as "EV"
- 9.4.53. Leave "ANOM" un-ticked
- 9.4.54. Leave "WFLO" un-ticked
- 9.4.55. Type "ROV left worksite, returning to TMS" in "Comments" field.
- 9.4.56. Leave "Action" box un-ticked; this makes the "Actions" box greyed out.
- 9.4.57. Rename "Button 10" as "In TMS"
- 9.4.58. Leave "ETYPE" as "EV"
- 9.4.59. Leave "ANOM" un-ticked
- 9.4.60. Leave "WFLO" un-ticked
- 9.4.61. Type "ROV secured in TMS ready for recovery to surface
- 9.4.62. Leave "ETYPE" as "EV"

Leave Buttons 11-20 unchanged, this will allow us to add events later if required,

- 9.4.63. Rename "Button 21" as "ROV on Surface"
- 9.4.64. Leave "ETYPE as "WO"
- 9.4.65. Leave "ANOM" un-ticked
- 9.4.66. Tick "WFLO" box
- 9.4.67. Type "ROV on surface||record weather conditions" in the comment box.
- 9.4.68. Tick "Action Box"

- 9.4.69. Select "RE Record End"
- 9.4.70. Rename "Button 22" as "ROV on Deck"
- 9.4.71. Leave "ETYPE as "EV"
- 9.4.72. Leave "ANOM" un-ticked
- 9.4.73. Tick "WFLO" box
- 9.4.74. Type "ROV on deck||post dive checks complete?
- 9.4.75. Tick ""Actions" button
- 9.4.76. Select "CL 73fifty-Trigger1 Close"; this will stop the 73fifty Black Box.
- 9.4.77. Finally rename "Button 23" as "Manual Event"
- 9.4.78. Leave all other fields of "Button 23" as they are.

The screen should now look like the picture below.

🐻 CUSTOMI	SE EVENT BUTTONS							
	EVENT (BUTTON NAME)	ETY	PE	ANOM	WFL	0 EVENT COMMENT/MESSAGE (EVENT IS USED IF BLANK)	ACTIC	N ACTIONS
Button 01:	Deck Checks	EV	•		Γ	ROV deck checks completed		_
Button 02:	Off deck	EV	•			R0V off deck - not in water		S1 73fifty-Trigger1 S
Button 03:	In Water	WI	•			R0V in water		RS Record Start 💌
Button 04:	At site	EV	•			R0V at worksite		_
Button 05:	Out of TMS	EV	•		◄	ROV out of TMSIWhere are you going?		_
Button 06:	At TDP	EV	•		◄	ROV at Touch down point How far from pipe is the ROV?		_
Button 07:	Debris	D1	•	$\overline{\mathbf{v}}$	◄	Debris found on route? List type of debris - has it been cleared?		PX Still Image 📃
Button 08:	Crack Found	CR	•	$\overline{ } $	◄	Crack found in concrete coating? STOP laying - visually inspect - log thickness of		CS Clip Start 💌
Button 09:	Left site	EV	•					_
Button 10:	In TMS	EV	•			ROV secured in TMS		7
Button 11:	Button 11	EV	•					7
Button 12:	Button 12	EV	•					7
Button 13:	Button 13	EV	•					7
Button 14:	Button 14	EV	•					V
Button 15:	Button 15	EV	•					7
Button 16:	Button 16	EV	•					7
Button 17:	Button 17	EV	•					V
Button 18:	Button 18	EV	•					V
Button 19:	Button 19	EV	•					7
Button 20:	Button 20	EV	•					7
Button 21:	ROV on surface	W0	•		◄	ROV on surface record weather conditions		RE Record Stop
Button 22:	ROV on deck	EV	•		◄	ROV on decklipost dive checks complete?		C1 73fifty-Trigger1 Cl
MANUAL:	Manual Event	EV	-					V
LOAD	FROM SAVE AS		Þ	PPLY		CLEAR CLOSE ROOT Default		

NOTE: the "Button Configuration Name" window, the name "ROOT Default" is the system default name for the project button configuration, as we have now changed the configuration of the buttons, if we click "Apply" the "Root Default" button will also be changed. If we want to keep the default settings for the buttons configuration, we can change the "Button Configuration Name" and "Save" it as a different file, we will cover this later in this section. 9.4.79. Click on "Apply" to save and load the new configuration.

You should now be back at the main screen as shown below.

🖁 GUL event buttons	tal Dive Log : Pr	oject=Second Project Div	e=No Dive S	Selected Loc=N/A Anon	nPrefix=			
File Project Dive	Log Overla	ay Publish Configure	Help					
LOG EVENTS	STORE	CAPACITY STATUS:		.1%			RECORD CONTROL	
Desk Chesks	[TIME	T	Event	6	Comment	REC 00:00:00	COC STOP
Off deck								
In Water							Recordings in Dive	Time
At ste								
Dut of TMS								
At TDP							CLIP CONTROL	
Debris							100:00:00	B:00 STOP
Crack Found							Cling in Dive	Duration
Left site								C WOLDN'
Button 11								
Button 12							STILL IMAGE GRAB	
Button 13								u
Button 14								
Button 15							PLAYBACK	LIVE VIEW
Button 16								0.00
Button 17							PLR9	STOP
Button 18							Evt@ 00:00	00:00
Button 19								
Button 20							CLIP YOK I	-0
ROV on surface							Remote Controlled 73filty T Trigger 1 X Tr	riggers:
POV on shale							atacana Disaran	Auguroux.
							Sta and and	and the same
HOOT Detaut							The second	Ar Brenn
Add Time Event								and and and
Manual Event	•							The Management

NOTE: the buttons are still greyed out, this is because we have not yet selected a dive. Before we select a dive let's look at a short cut to configuring the buttons.

9.5. Using the "EDIT" button

As seen above each parameter in the "Customise Event Buttons" screen can be configured individually, however if you double click on the "EDIT" button at the end off each line then a new window pops up as below.

🚳 BUTTON1 CONFIGURATION EDITOR	<u> </u>
EVENT NAME:	
EVENT TYPE: EV Anomaly FLAG	
WORKFLOW: O MESSAGE/ACTION OR REQUEST	
MESSAGE / ACTION OR REQUEST:	
I FEEDBACK/COMMENT OR RESPONSE TO BE LOGGED:	
ENABLE ACTION:	
Apply Reset Cancel	11

As you can see it is possible to configure all button functions from within this screen, from changing the Button's name to selecting an "Action".

To describe this window let's amend "Button 11" of the current button configuration.

- 9.5.1. Click the "Project" tab then select "Customise Event Buttons"
- 9.5.2. Double Click in the "EVENT COMMENT/MESSAGE" field of Button 11, this will open the window for this event.

Tip: Event Buttons can be customised at any point in a Project, so the Buttons do not have to be configured in the order that they would be used, though of course this would be best.

M Cust	tomise en Imc Marin	vent_butto e Digital Div	ns WFLO wir ve Log : Proje	dow1 br	on - Paint nd Project Di	ve=No I	Dive Se	electe	ed Lo	oc=N/A AnomPrefix=				
File	Project	Dive Lo	g Overlay	Publish	Configure	Help								
LO	G EVENTO	CUSTOM	-	TONE		_	_	_	-			- DECODD CONT		d
	Deck	COSTOPIL	EVENT	(BUTTON	I NAME)	ETYPE	ANO	M WF	LO	EVENT COMMENT/MESSAGE (EVENT IS USED IF BLANK)	ACTI	ON ACTIONS		STOP
	Off	Button 01:	Deck Checks			EV	-	Γ	F	ROV deck checks completed			Y	
		Button 02:	Off deck			EV		Γ		RDV off deck - not in water	2	S1 73fifty-Trigger1	S. 💌	Time
	A	Button 03:	In Water			WI 1				ROV in water		RS Record Start	-	
	Out	Button 04:	At site			EV		Г	IF	ROV at worksite	— n		Y	
	44	Button 05:	Out of TMS			EV	-	V		RDV out of TMS[Where are you going?			Y	
		Button 06:	At TDP			IEV I	7 -	V	- 12	DNL st Tausk down naistilliau far kon nins is the DNU9			Y	
		Button 07:	Debris		BUTTON11	CONFIGU	JRATIO	JN EDJ	по	R	<u> </u>	PX Still Image	•	
	Crac	Button 08:	Crack Found	_	EVEN	T NAME	But	ton 11	_			CS Clip Start	•	Duration
_	Le	Button 09:	Left site		EVEN.	T TUDE	, Inv						Y	
	In	Button 10:	In TMS	_	EVEN	T T TPE:	JEV			Anomaly FLAG			Y	
	But	Button 11:	Button 11		WOR	KFLOW:	۰	NONE		MESSAGE/ACTION OR REQUEST			7	
	But	Button 12:	Button 12		MESS	AGE / A	CTION	OR RE	EQU	EST:			Ŧ	2
		Button 13:	Button 13										Y	
	But	Button 14:	Button 14										Y	
	But	Button 15:	Button 15										Y	LIVE VIEW
	Rué	Button 16:	Button 16		FEED	BACK/CO	OMMEN	IT OR	RES	SPONSE TO BE LOGGED:			Y	
	0.4	Button 17:	Button 17										Y	STOP
-	But	Button 18:	Button 18										Y	00:00
_	But	Button 19:	Button 19										7	
	But	Button 20:	Button 20		5 144		, 1011 E	-	_				Y	-0
_	But	Button 21:	ROV on surfa	ce	ENA	BLE AUT	IUN: I		-	<u> </u>		RE Record Stop	•	riggers:
	ROV o	Button 22:	ROV on deck			_			_			C1 73fifty-Trigger1	۵×	gger2 🔀
	ROV	MANUAL:	Manual Event				Ap	ply		Reset Cancel			Y	
			FROM	SAVE A	s I		APPI '	,	1					
				SAVE A		_	ere i i i i			ROUT Default	_			/1 6 E 0
	Manual	Fuert												

9.5.3. Rename Button 11 as "First TDP"

- 9.5.4. Leave the Event Type as EV, a general event.
- 9.5.5. Leave the Anomaly box un-ticked
- 9.5.6. Tick the "NONE" box beside the WorkFlow title

Note: you cannot click in the first box "Message/Action" text box; this is because we have selected NONE above.

- 9.5.7. Click in the "FEEDBACK/Comment" box
- 9.5.8. Enter the text "Anode touchdown point"
- 9.5.9. Tick the Enable Action box
- 9.5.10. Select PX from the drop down menu beside the tick box.
- 9.5.11. Click apply
- 9.5.12. Click on the "Edit" button for button 12
- 9.5.13. Rename "Button 12" as "Pipe No."
- 9.5.14. Leave the Event Type as EV, a general event.
- 9.5.15. Leave the Anomaly box un-ticked

9.5.16. Tick the "Message/Action" box beside the WorkFlow title

Note: you can now click in the first box "Message/Action" text box

- 9.5.17. Click in the "Message/Action" box.
- 9.5.18. Type "Enter the pipe ID number painted on the pipe"
- 9.5.19. Click in the "FEEDBACK/Comment" box
- 9.5.20. Enter the text "Pipe ID No. = ???"; the ??? tells the system that there should be a response to this question; if no answer is input, then DDL will check how you wish to proceed.
- 9.5.21. Tick the Enable Action box
- 9.5.22. Select PX from the drop down menu beside the tick box.

The screen should now be as shown;

8 BUTTON12 CONFIC	SURATION EDITOR	
EVENT NAME:	Pipe No	
EVENT TYPE:	EV Anomaly FLAG	
WORKFLOW:	○ NONE	
MESSAGE / ACT	ION OR REQUEST:	
	Enter the pipe ID number painted on the pipe	
FEEDBACK/COM	IMENT OR RESPONSE TO BE LOGGED:	
	Pipe ID no = ???	
ENABLE ACTIO	N: 🗹 🛛 🚩 FX Still Image	
	Apply Reset Cancel	

9.5.23. Click apply

The screen should now look like this:

🕲 CUSTOM	ISE EVENT BUTTONS								
	EVENT (BUTTON NAME)	ETYF	PΕ	ANOM	WFL	D EVENT COMMENT/MESSAGE (EVENT IS USED IF BLANK)	ACTI	ON ACTIONS	
Button 01:	Deck Checks	EV	*			RoV deck checks completed		~	EDIT
Button 02:	Off deck	EV	*			R0V off deck - not in water		S1 73fifty-Trigger1 S 🔽	EDIT
Button 03:	In Water	WI	~			ROV in water - start of billing		RS Record Start 🛛 👻	EDIT
Button 04:	At site	EV	~			ROV at worksite		~	EDIT
Button 05:	Out of TMS	EV	~		~	ROV out of TMSIWhere are you going?		~	EDIT
Button 06:	At TDP	EV	*		✓	ROV at touchdown point How far from pipe is ROV?		~	EDIT
Button 07:	Debris	D1	~		✓	Debris found on route List type of debris - has it been cleared?		PX Still Image 🛛 👻	EDIT
Button 08:	Crack found	W0	~		✓	Crack Foundin Pipe? Stop laing - visaullay inspect - log thickness of crack		CS Clip Start 🛛 👻	EDIT
Button 09:	Left Site	EV	*			ROV left worksite, returning to TMS		~	EDIT
Button 10:	In TMS	EV	*			ROV secured in TMS ready for recovery to surface		~	EDIT
Button 11:	Anode TDP	EV	~			First touchdown point		PX Still Image 🛛 👻	EDIT
Button 12:	Pipe No	EV	~		~	Enter the pipe ID number painted on the pipe Pipe ID no = ???		PX Still Image 🛛 👻	EDIT
Button 13:	Button 13	EV	~					~	EDIT
Button 14:	Button 14	EV	~					~	EDIT
Button 15:	Button 15	EV	*					~	EDIT
Button 16:	Button 16	EV	~					~	EDIT
Button 17:	Button 17	EV	~					~	EDIT
Button 18:	Button 18	EV	~					~	EDIT
Button 19:	Button 19	EV	~					~	EDIT
Button 20:	Button 20	EV	~					~	EDIT
Button 21:	ROV on surface	W0	*			ROV on surfacellRecord weather conditions		RE Record Stop 🛛 👻	EDIT
Button 22:	ROV on deck	EV	~			ROV on decklipost dive checks complete?		C1 73fifty-Trigger1 C 🔽	EDIT
MANUAL:	Manual Event	EV	~					~	EDIT
LOAD	FROM SAVE AS		A	PPLY		RESET CLOSE Manual	ne:		

Notice the "Comments" field of "Button 11" has a white background, where as that of "Button 12" is yellow, this is because "Button 12" has a Question and a required Feedback. Also note the character "||" has automatically been inserted in the "Comments" field for "Button 12" thus indicating a response is required.

9.5.24. Now Click "Apply" to close the "Customise Event Button" screen.

Now let's select a dive and start to use the DDL software.

10. Selecting a Dive

- 10.1. From the main screen click on the "Dive" tab.
- 10.2. Click on "New Dive". A new window will open, the top of this indicates the dive will be in "Project [Second Project], it also shows that there are no other dives in the project and that the "New Dive" will be called "Dive-001": see image below.

DIVE NAME	V	£	S	ID	
	-				
NEW DIVE DETAILS					
DIVE: Dive-001					DIVE FRIENDLY NAME
SYSTEM/ROV: WROV		-			
VESSEL: DP1					
CLIENT: DilCo					
CONTRACTOR: MyCo					
	S	ecor	ud .		
		ccor			
	L.				
PROJECT CLIP PREFIX:	js E	ecor	nd		M ADD DATE/TIME
PROJECT STILL PREFIX:	S	ecor	nd		M ADD DATE/TIME
DIVE STILL PREFIX:					

Note; all the Project data has automatically been copied into the window for you, as has the Project media prefix names, in this case "Second"

- 10.3. You can give the dive a friendlier name than "Dive-001" if you wish e.g. "Touchdown Monitoring" as we have used in the example below.
- 10.4. You can now add a media prefix specific to this dive if required, we will use "TDM"

10.5. Now click "Create New" to finalise the new dive.

-114 Overlay Publish Configure Help File Project Dive Log RECORD CONTROL LOG EVENTS STORE CAPACITY STATUS: .1% Deck Check: REC 00:00:00: TIME T Event А Commen # Off deck Recordings In Dive Tim In Water At site Out of TMS CLIP CONTROL At TDP 20:00:00:00 · Debris Crack Found Clips In Dive Duratio Left site In TMS Anode TDP STILL IMAGE GRAB Pipe No. Stills In Dive Button 13 Button 14 Button 15 PLAYBACK Button 16 Button 17 Evt@ Button 18 Button 19 Button 20 Remote Controlled 73fifty Triggers: ROV on surface Trigger 1 🔀 Trigger 2 ROV on deck ROOT Defaul Add Time Event Manual Event F

NOTE: shown below, the Buttons are no longer greyed out and the title bar indicates the project name and dive name.

11. Summary of configuration

So far we have seen how to:

- set up a file structure for the DDL project tree
- select the bit rate and input to the DVR
- configure the various DDL options
- create and configure "User Events"
- set actions
- configure "Event Buttons" both column by column and via the "Button Configuration Editor"

It is now time to start using the "Eventing Buttons" to populate the Log Table.

12. Using the "Event Buttons"

REMEMBER for the media controls to work there must be a video source connected. If you do not see a video picture on the screen STOP and check the source before proceeding.

12.1. Click button "Deck Checks"; note in the log this generates an entry called "001", subsequent Button clicks will generate sequentially numbered events.

Note; no media recordings have been instigated as this button had no actions associated to it.

Move the slider at the bottom of the screen to see cells further to the right; "right" clicking on any of the columns displays a drop down list of possible parameters to be displayed, see below.

Buttons Ready hmn - Pai	nt									iai x
🐯 NETmc Marine Digital Div	e Log : Pro	ject=Second Project Dive	=Touch	idown Monitoring [[Dive	-001]				_0,
File Project Dive Log	Overlay	/ Publish Configure H	elp							
LOG EVENTS	STORE C	APACITY STATUS:		.1%					RECORD CONTROL	
Deck Checks	L	79.00							Rec DOMONIO	5702
Off deck	# 001	12/06/2013 14:15:55.65	EV	Deck Cher		Sort ascending by 'Event'	thecks completed	_		
In Water						Sort descending by 'Event'			Recordings In Dive	Time
At site						Group by 'Event' Unsort				
Out of TMS					~	#	_			
At TDP					~	TIME			CLIP CONTROL	
Debris					~	T	_		20:00:00	COC STOP
Crack Found					-	A			Clips In Dive	Duration
Left site					~	Comment				
In TMS					~	Record File				
Anode TDP					-	Clip File			STILL IMAGE GRAB	
Pipe No.					~	Clip TC			Stills in Dive	8
Button 13					~	Stil File				
Button 14										
Button 15									PLAYBACK	LIVE VIEW
Button 16									PL89 00:00:0	8:88
Button 17									Len 00:00	:00:00
Button 18									Evt@ 00:00	00:00
Button 19									CLIP VOK L	-0
Button 20									Remote Controlled 73htty Ti	iggers:
ROV on surface									Trigger 1 💢 Trig	3ger 2 🗙
ROV on deck									And	
ROOT Delault									AND DUNK	A AN
Add Time Event									Mary and	100
Manual Event	•		1	1				F	())) Route class	A P annotation

12.2. Click "Off Deck"; this has generated "S1" in the "A" (Actions) column indicating that it would start a 73fifty if connected.

NOTE; 73fifty media file names are NOT displayed in the log table.

12.3. Click "In Water";

Note this button was configured to start the master recording, see "Record Controls" section on the right of the screen; you can see the duration of the file counting up and the name of the file that includes the Project and Dive prefixes that we set up earlier.

Remember; the duration of these files is dependent on the settings in the configuration screen, currently this is set to 5min (300secs) Also note the Log Table has an entry 004, this is a "System Event" and indicates the DVR has started recording.

12.4. Click "At Site"

12.5. Click "Out of TMS" button

This pops up the "WorkFlow" window with the cursor blinking in the

EVENT LOG ENTRY :: Workflow Edi	tor		
EVENT TIME: 13/06/2013 14:	20:12.48	EVENT ID:	009
Event Summary	Recordings Clips And Stills	WorkFlow	
This event has t	oeen marked as containing (a WorkFlow Element.	
Follow the instructions belo Complete the Feedback/C If you wish to complete this	w in the Message/Action or Request bo omment to be Logged box as appropriate s later press Cancel and edit in the main I	x e then press APPLY. log screen.	
MESSAGE / ACTION OR REQU	EST:		
ROV out of	TMS		
FEEDBACK/COMMENT TO BE	LOGGED:		
Where are	you going?		
Apply	Reset	Do It Later	

"Feedback" box as shown below.

12.6. Enter the ROVs destination in the "Feedback" box, we have entered "Touch down point".

There are two other tabs in this window

() EVENT LOG ENTRY :: Workfl	ow Editor		
EVENT TIME: 22/07/2013 10	:01:47.54	EVENT ID: (D06
Event Summary	Recordings Clips And Stills	WorkFlow	
	Allow Edit Of Rec/Clip/Still Values:		
RECORD FILE: Se	condTDM20130722160050.avi		
RECORD TC: 00:	00:57:13		
CLIP FILE: NO	TRECORDING		
CLIPITC: 00:	00:00:00		
STILL FILE:			
Apply	Reset	Do It Later	

12.6.1. Click on the "Recording Clips and Stills" tab; this shows if any media files were open, or have been opened, when the event button was clicked.

e.g. here we are advised that a file "SecondTDM20130722160050.avi was in progress when the event occurred and that the event happened 57.13 seconds into the file. If the event button was clicked too late, and the recorder was recording at the earlier time, then clicking the "Allow Edit" tick box enables you to look at the video file and change the "Time Code" (TC) of the event. By doing this if you play the media from within the log, the video will start at the TC of the event, rather than at the start of the video file.

In the example above, change the TC of the event to 56:1, see below.

🕲 EVENT LOG ENTRY :: Work	low Editor		
EVENT TIME: 22/07/2013	6:01:47.54	EVENT ID:	006
Event Summary	Recordings Clips And Stills	WorkFlow	
] Allow Edit Of Rec/Clip/Still Values:		
RECORD FILE: S	econdTDM20130722160050.avi		
RECORD TC: C	0:00:56;13		
CLIP FILE:	OT RECORDING		
CLIP TC: C	0:00:00:00		
STILL FILE:			
Apply	Reset	Do It Later	

12.6.2. Click "Event Summary"; this is effectively a preview of what will be logged in the Log Table.

Event Summary	Recordings Clips And Stills	WorkFlow	
EVENT TIME:	22/07/2013 16:01:47.54	Allow Edit Of EventTime	
EVENT NAME:	Out of TMS		
EVENT TYPE:	EV	Anomaly FLAG	
COMMENT:	Where are you going? Touchdown	Point	

- 12.6.3. Tick the "Allow Edit Of Event Time"; you can now change the time of the event if critical.
- 12.6.4. If no editing of the event is required click "Apply"

The screen should now look as follows:

🚳 NETmc Marine Digital D)ive Log :	Project-Second Projec	t Dive-	Touchdown Monitoring (Dive-001]		
File Project Dive Log	Overlay	Publish Configure H	elp				
LOG EVENTS							RECORD CONTROL
Deck Checks							
	#	TIME	T	Event	A	Comment	REC CORCES CROS
Utt deck	1001	22/07/2013 15:59:09.43	EV	Deck Checks		RoV deck checks completed	
In Water	002	22/07/2013 16:00:45.51	EV	Off deck	S1	ROV off deck - not in water	Recordings In Dive Time
	2 003	22/07/2013 16:00:50.18	WI	In Water	RS	ROV in water - start of biling	Second TDM20130722161050.avi 00:04:59:00
At site	GO 004	22/07/2013 16:00:50.20	RS	Record Start		Record Start	SecondTDM20130722161550.avi 00.04.59.00
Out of TMS	005	22/07/2013 16:01:44.48	EV	At site		HUV at worksite	SecondTDM20130722162550.avi 00:03:10:00 V
	006	22/07/2013 16:01:47:54	EV	UUL OF LMS		Where are you going? Touchdown Point	CUD CONTROL
At TDP							
Debrix							5702 00-00-00-00 STOP
Crack found							Cling In Dive
Loft Site							Chips in Divo
Leicone							
In TMS							
Avada TOD							
Arloue TDP							STILL IMAGE GRAB
Pipe No							E3 Stills in Dise
							Sais in pive s
Button 13							
Button 14							
Button 15							PLAYBACK LIVE VIEW
Button 16							
							PURY STOP
Button 17							Len 00:00:00
Button 18							Evt @ 00:00:00:00
							
Button 19							ENCREC END L-25
Putton 20							
Dullott20							Remote Controlled 73fifty Triggers:
ROV on surface							Trigger 1 💢 Trigger 2 💢
DOV L L							
HUV on deck							
Manual							
Add Time Event							
Manual Europt							
manual E verk	<						

13. Manual eventing

There is more than one way to add a manual event to the log and these depend on the settings in the "Options" screen under the "Configure" Tab. Let's quickly look in the "Options" screen;

O APPLICATION OPTIONS		
PRODUCT INFORMATION -		
Module Name:		
Module Version:	1.0.36	
Module Date:	11 July 2013	
START-UP OPTIONS		
🔲 Open Last Project		Single Project Event Button Configuration
Open Last Dive		Single Project Encoder Configuration
📃 Show Tooltips 🗹 E	dit Log Event/Comments InLine	
Show Only Event Log	(Disable Split Preview/Log)	Show DISK Status in Log Only Mode
Enable Event Button I	Menu	 Enable Report Template Expression Designer
STORE PATH (Base Folder)	Containing Projects)	
LOCAL D:\DDL Proj	ects	
PENOTE		
WORKFLOW LOCKS AND C	CHECKPOINTS	
Log Entry Time Format:	dd/MM/yyyy HH:mm:ss.ff	RESET TO DEFAULT
🗹 Always Edit MANUA	L Log Event After Capturing MetaD	Pata
Do Not Allow Partial	 lu Completed Workflow Events in Li	og (Do It Later)
Remote Controlled Devices (mediaNET General Purpose Contro	I Module Support)
Enable 73tifty Frigge	Enable 73hitty Fri	gger 2
IP 194.36.79.207	IP [194.36.79.207	
ID a	ID b	
	Apply	Cancel

Currently the "Always Edit Manual log event......" is ticked, so when we click on the "Manual EVENT" screen.

13.1. Click on the "Manual Event" button to create entry 007.

EVENT EVENT TIME:	22/07/2013 16:4	41:30.68 metaEDIT EVENT ID: 007			
	RECORD FILE:	SecondTDM20130722163550.avi			
	RECORD TC:	00:00:40:17			
	CLIP FILE:	NOT RECORDING			
	CLIP TC:	00:00:00			
	STILL FILE:				
EVENT TYPE:	EV	Monomaly FLAG			
EVENT:	Manual Event	Manual Event			
COMMENT:	Manual Event	Manual Event			

This now allows us to edit the manual event, including changing the Time Code of any associated media files.

13.2. To create the next log entry click "Add Time event" the box below will appear.

ADD NEW LOG EVENTS		
EVENT DATUM METADAT	ΓΑ	
EVENT TIME: 22	/07/2013 16:47:11.859	
RECORD FILE:	SecondTDM20130722164550.avi	
RECORD TC:	00:01:20:19	
CLIP FILE:	NOT RECORDING	
CLIP TC:	00:00:00	
EVENT		
	PAUSE RUN	
TYPE: EV	/- GENERAL EVENT 🔍 🗌 Mark this Event as an Anomaly	
NAME:		
COMMENT:		
Complete Type, Name & Com	ment then press ADD to add an Event to the Log. Or press PAUSE to FREEZE I	Data First.
Ad	d Reset Cancel	

Tip; you can now watch the clock and click "Add" when the event happens for higher accuracy, e.g. timing the touch down of a jacket during installation.

Tip: this event window can be kept open and running in the background for instant access.

- 13.3. Click "ROV on surface" and record the weather conditions
- 13.4. Click "ROV on deck" and answer the question.
- 13.5. Optionally you can close the Dive from the "Dive" tab. When you do this the buttons are greyed out.
- 13.6. Optionally you can close the Project from the "Project" tab. The header at the top of the screen no says Project = No Project
- 13.7. Editing existing events

At any point during the operation an event can be edited, just right click on the event and select "Edit Event."

14. Configuring the NETmc Marine videoTXT overlay

As previously stated when setting up new "User Events" DDL can control an external NETmc Marine videoTXT overlay. NB the DDL overlay control only works with NETmc Marine videoTXT overlay, it does not work with other 3rd party overlays. In this section we will look at how to configure the On Screen Display or OSD.

- 14.1. Click on the "Overlay" tab to display the sub-menu; here you can enable or disable the OSD, and select what parameters to be show. However it is probably best to configure the overlay from the "Setup Overlay" option.
- 14.2. Click on "Setup Overlay" and the box below opens.

CONFIGURE OVERLAY	
CONFIGURE OVERLAY Overlay Control ADVANCED SETTINGS Chable Overlay W- 52 H- 13 CLS on Close Autoload Template Page template.ovl Add Time & Date STD (dd/MM/yyyy HH:mm:s) USED:	12 34567890012 34567890012 34567890012 34567890012 34567890012 34567890012 34567890012 3456789000000000000000000000000000000000000
USER: dd/MM/yyyy HH:mm:ss.fff Add Label LABEL ** Display Event on Overlay *** EVENT ***	9 10 11 12 13 14 15 16 17 18
Display Event Comment on Overlay EVENT COMMENT **	19 LoadFromDefault SaveAsDefault Enable AutoClear ✓ Delay 0 secs LoadFromFile SaveToFile AutoApply Apply Reset Close

- 14.3. Screen Description
 - 14.3.1. "Advanced Settings"

This allows the overriding of the default figure.

14.3.2. "Enable Overlay"

Tick this box to enable the use of the overlay. Beside this is a COM port window, this should always be COM1.

14.3.3. "Automated Template Page"

If the user saves a template configuration, and want to use this as a default then tick this box.

14.3.4. "Add Time &Date"

Tick this box to display the overlay generated time and date if neither the ROV or the NAV system does not generate it.

Tip: the overlay generated time and date will, by default, be positioned top left, left justified. To move the position of the overlay click on any part of the numbers and drag to the preferred position.

NOTE: where the time and display shows up on the screen will depend on the width and height settings in the Advanced Screen.

14.3.5. "Add Label"

The overlay screen can be used to give the video feed a name e.g. "Centre Camera". To the right of the text field is a drop down menu, this gives the ability to select where to display the "Label"; Left, centre or right.

- 14.3.6. "Display Event on Overlay" When ticked, an event configured to be displayed in OSD will have the text from its button displayed on the screen.
- 14.3.7. "Display Event Comment on Overlay" When ticked, an event configured to be displayed in OSD will have the text from its comment field displayed on the screen.
- 14.3.8. "Enable AutoClear" If this button is ticked then the display parameters will clear from the overlay after the predetermined time, otherwise they will have to be manually deleted.
- 14.3.9. The load and save buttons are to use previously stored overlay settings.

14.3.10. "Reset"

If after making changes, but before applying them, you want to cancel them, click "Reset".

15.Manual control of media

On the right hand side of the event log is the "Record Control" section, the controls will change as a relevant event button is pressed, however the controls can be manually operated as well, though only if a "Project" and "Dive" are selected.

- 15.1. The buttons are operated by simply clicking on the relevant function.
- 15.2. Replay media files from the "Record Control" listing

All media files can be replayed immediately after the file is completed. During replay, the file replaces the live view, at any time the "LIVE VIEW" button can be clicked to revert to showing the live view.

The file is played by clicking on the file name in the "Record Control" area or from the log table. As seen in the image here the "Playback" turns blue when media files are played, in normal mode the "Live View" button would be blue. The image here shows a "Still" being displayed, if the file were a video file the "Play" button would change to a "Pause" button. You can use the slide bar to move back and forward in the video file or for finer control use the left and right arrow keys.

Tip: If you enable the display screen in the log, then the media files can be played and the live view can be seen at the



played and the live view can be seen at the same time.

15.3. Replay media files from log table

It may be easier to locate a media file by an "event" in the log, to do this you can locate the event in the log then find the media file you want and play it. To play the file right click on the cell containing the media file and click the relevant command.



In the image above, "Open Record Media" has been selected, look at the time code boxes below the counter screen, there are two one is called "Len" this is the duration of the files selected, the other box is called "Evt @" this indicates that there is an "Event" at the displayed time "into" the file.

In this example, the event is 8s into the file which is 15s long. When we play this file in this manner, the player jumps straight to the event time. Of course you can use the arrow keys or slide bar to go backwards in the file.

16. Publishing reports

Under the "Publish" tab is the facility to generate reports, these can be either Docx; CSV or HTML format. Each format has a default template that controls the layout of the report and how the logged data is used.

TIP: you must have a project open to be able to access the "Publish" menu.

To generate a report click on the "Publish" tab, there are now several options to choose from.

16.1. Run Report (Current Report)

If a report has already been used, or selected, the report name will be displayed in the brackets, just click "Run Report" to generate the report. The system then displays a compiler screen and asks where to save the report.



NOTE: the reports generated will all have the same default name, so suffix the file name with the time and date generated before saving to identify each report.

16.2. New Template

NOTE: this is not a function field staff would normally use. More normally field staff would use the "Edit Template" function, however these templates will probably be set by the ROV management.

The "New Template" option allows you to use an EXISTING template and modify the data displayed in the report it generates and save this as a separate template for a new report, with a new name. DO NOT use this function to edit a template which is going to keep the same name, for this use the "Edit Template" function.

- 16.2.1. Select the type of report you want HTML (XSL Transform), CSV (ASCII) or Microsoft DOCX.
- 16.2.2. Browse to select the template you want to use and select it.

REPORT : CREA	TE NEW REPORT TEMPLATE			
NEW REPORT DE	TAILS			EVENTS INCLUDED IN REPORT
REPORT NAME:	"'NEW"			EVENTS MARKED AS ANDMALIES
REPORT TYPE:	O HTML (XSL Transform) O CSV (AS	CII) 💿	Microsoft DOCX	USER EVENTS
TEMPLATE FILE:			Browse	SYSTEM EVENTS
	NOTE: selected template will be copied	USE S1	STEM TEMPLATE	
USER EVENT SEL	ECTION		SYSTEM EVENT	SELECTION
EVENT	DESCRIPTION		EVENT	DESCRIPTION
EV EV	Event		D0	Dive Open
l 🖞 🕅	ROV in Water		DS	Dive Close Dive Start
wo	ROV out of Water		DE DE	Dive End 🗧
			BS	Blackbox Start
			BB	Blackbox Eng
			BF	Blackbox File \${blackboxFile}
			BX	Blackbox Error
			BF BF	Record Start Becord End
			BR RR	Record Recorder
			BF BF	Record File \${recordFile}
			HX CC	Circ Clash C (Line Circ)
<	i i i i i i i i i i i i i i i i i i i	>	<	
	CREATE	RESE	T	CANCEL

16.2.3. Select the type of events you want to be included in the report 16.2.4. Give the report a new name and "Create" the report template

16.3. Edit Template

This allows you to change the events to be displayed in the selected report; the one whose name is in the brackets beside the "Run Report) option.

16.4. Delete Template

Select this option to delete unwanted templates.

NOTE: You must always have at least one template.

16.5. Export DiveLog

This section enables the user to generate an HTML report, viewable in Internet Explorer or a bundled version with hyperlinks to media files.