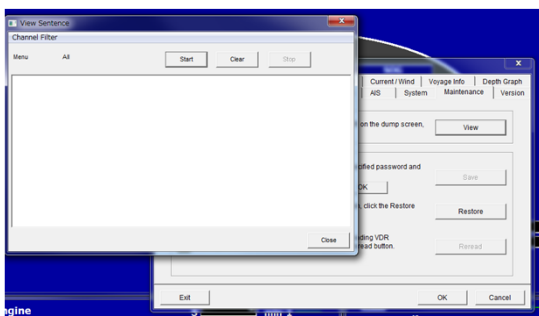


Reference Guide for Creating VDR APT Report

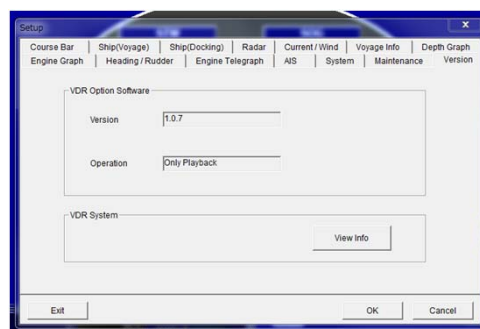
Guide for Interfaces: Operation and Recording

Follow the APT procedure and data download method accordingly. After the download is complete, play back for final confirmation, and check the sentences to be included in the APT report.

Marine Service Department
May 2019, ver.1.0



Click “View” button in Maintenance tab



Click “View info” button in Version tab

Check all data by Playback software after download.

1.Confirm the RADAR/ECDIS screen capture and Audio.

2.Check the sentence.

(View info screen)

Ship's details	
Ship's name	GLOBAL FRONTIER
Flag	PANAMA
IMO number	9445605
Date keel laid	05-Apr-2017
Gross tonnage	12500

Voyage data recorder details	
Manufacturer	JRC
Model	JCY-1900
System serial number	MB52806
Software version number	01.01.004
Date fitted	Aug-2017

Inspection Details	
Name person conducting test	Masahiko Unose
Company	Japan Radio Co.,Ltd.
Inspection date	16-May-2019
Inspection location	Osaka/Japan

Info			
RCU			
No.	Category	Item1	Item2
001		VDR/S-VDR Type:	
002			
003	1.	Type approval authority and r...	
004	1.1	* Type Approval No.:	BABT-MED000066
005	1.2	* VDR/S-VDR Serial No.:	MB52806
006			
007			
008	2.	IMO vessel identification num...	
009	2.1	* IMO No.:	9445605
010	2.2	* Ship's Name:	GLOBAL FRONTIER
011	2.3	* Call Sign:	H3TS
012	2.4	* MMSI:	355871000
013			
014			
015	3.	Software Version and Update...	
016	3.1	* Software Version:	01.01.004
017	3.2	* Software Updated Date(YY...	2000/01/01 12/03/08
018			
019			
020	4.	Automatic insertion of date a...	
021	4.1	Factory Setup	
022		* Name:	o.masubuchi
023		* Company:	JRC
024		* Date(YYYY/MM/DD hh/mm/...	2000/01/01 00/05/50

Double check ship's name, IMO and others, type in correctly.

1. Pre-existing alerts		Yes	No	N/A
Confirm that no alerts were present at start of procedure.		☒	☐	☐
2. Power supply alert check		Yes	No	N/A
Remove source of external power. Confirm that alert is activated.		☒	☐	☐
Record time (hh:mm)	10:00(UTC)			
3. Reserve power source check		Yes	No	N/A
Allow VDR to continue running for 1 hour 55 minutes from '2' above.				
Confirm that equipment is still operating at this time, with no additional alerts.		☒	☐	☐
Record time (hh:mm)	11:55(UTC)			
4. Reserve power source shutdown check		Yes	No	N/A
2 hours 05 minutes from '2' above confirm that the VDR has automatically stopped recording.		☒	☐	☐
Record time (hh:mm)	12:05(UTC)			
5. Expiry dates		Yes	No	N/A
Unit	Expiry date (where applicable)			
Acoustic beacon	Apr-2021	☒	☐	☐
Float-free capsule's battery	Jul-2021	☒	☐	☐
Float-free capsule's HRU	Jul-2022	☒	☐	☐
Reserve power source	Mar-2021	☒	☐	☐
6. Acoustic beacon test		Yes	No	N/A
Using manufacture's test equipment confirm that acoustic beacon is functional or by the substitution of a certified fully operational unit.		☒	☐	☐
7. Overall condition of equipment		Yes	No	N/A
Sub unit	Notes on condition			
Protective capsule	Good	☒	☐	☐
Float free capsule	Good	☒	☐	☐
External cables	Good	☒	☐	☐
Main unit	Good	☒	☐	☐

Type Blackout test time by UTC.
COC will check blackout time by Event Log file.

Double check Expiry date with inputted VDR configuration.

Beacon check result

8. Interfaces: Operation and recording		Yes	No	N/A
Date and time	Preferably external to ship (e.g. GPS)	☒	☐	☐
Ship's position	Electronic Positioning system	☒	☐	☐
Speed (through water or over ground)	Ship's designated speed and distance measuring equipment	☒	☐	☐
Heading	Ship's compass	☒	☐	☐

224	-----		
225	* Serial CH-<3>:		
226	* Data:		
227	Date and time	??ZDA	
228	Ship's position	??GGA	
229	Datum	??DTM	
230	Ground course/speed	??VTG	
231	* Equipment:	DGPS	
232	* Model:	JLR-7700MK2	
233	* Manufacturer:	JRC	
234	* Serial No.:	KE78269	
235	* Serial CH-<4>:		
236	* Data:		
	Ground/water speed	??VBW	

(View info screen)

No.	Category	Item1	Item2	Contents
243	* Data:	True heading	??HDT	
244	* Equipment:	Gyro Compass		
245	* Model:	TG-8000		
246	* Manufacturer:	TOKYO KEIKI		
247	* Serial No.:	84564		

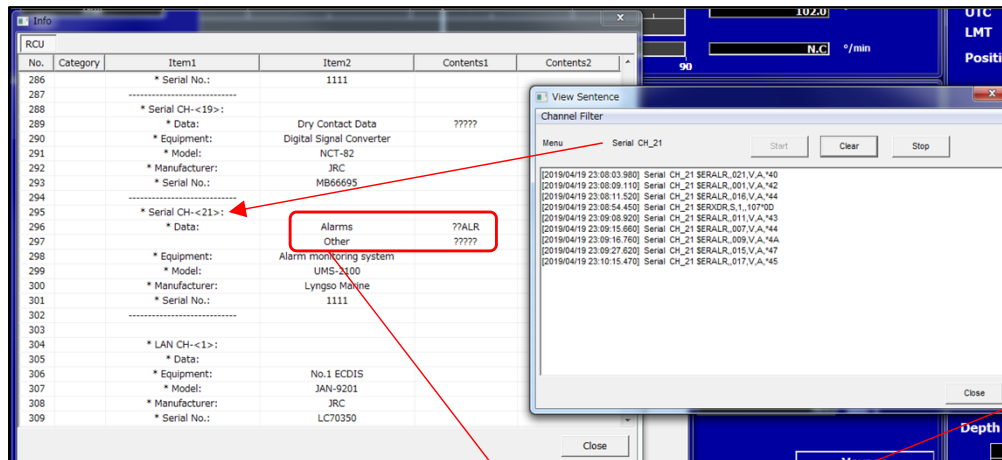
(View info screen)

MIC / VHF audio test result and confirmed by playback

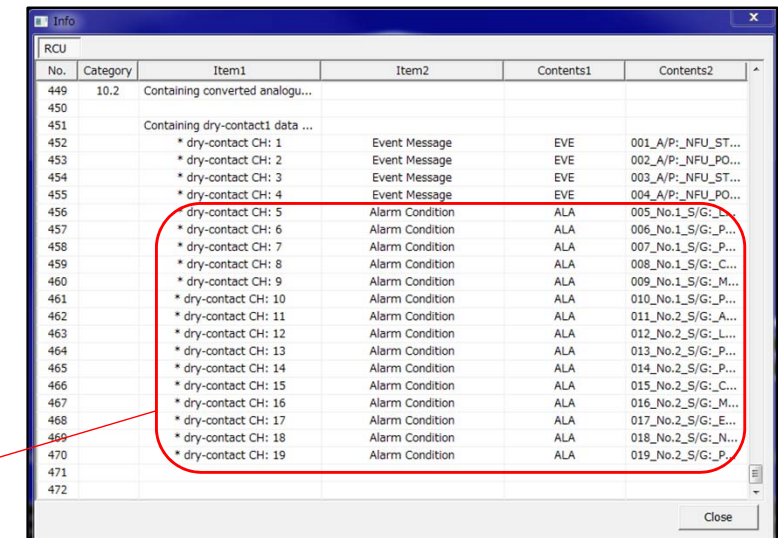
Bridge audio	1 or more bridge microphones (resolution A.861(20), 2 or more bridge and 1 or more wing microphones (Resolution MSC.333(90))	Audio	☒	☐	☐	☐
Communications Audio	VHF	Audio	☒	☐	☐	☐
Radar data-post display selection	Master Radar	Video LAN	☒	☐	☐	☐
Radar data-post display selection	No.2 Radar	Video RGB	☒	☐	☐	☐
ECDIS	Primary ECDIS	Video LAN	☒	☐	☐	☐

Video LAN=Direct connect by LAN
Video RGB=Supply by VGA to FGU/FGB

Reference Guide to Creating VDR APT Report

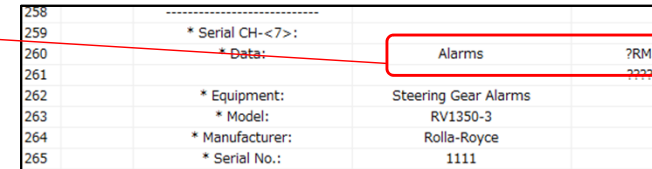


See Next page



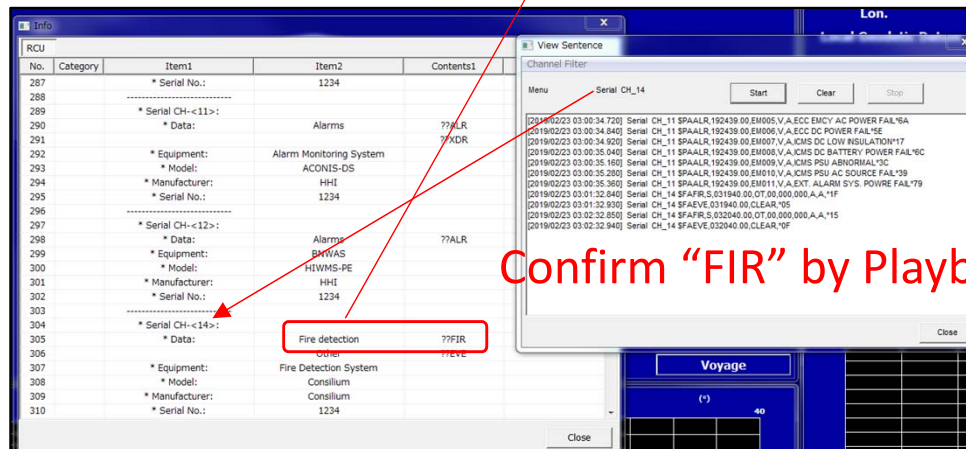
(View info screen)

Water depth	Echo sounder	DPT	☒	☒	☒
Main alarms (e.g. BNWAS)	All mandatory alarms on bridge	☒ ALR ☒ FIR ☐ ACM ☐ ALC ☒ DRY-CON	☒ ALA ☐ WAT ☐ HBT ☐ ALF ☒ RMS	☒	☐



(View info screen)

Confirm "FIR" by Playback



248
249 * Serial CH-<6>:
250 * Data:
251 Rudder order (manual)/respo... ??HTD
252 Rudder response (manual) ??RSA
253 Other ?????
254 Rudder order (manual) ??ROR
255 * Equipment: Auto Pilot
256 * Model: RR-5612A
257 * Manufacturer: TOKYO KEIKI
* Serial No.:
* Equipment: Fire Detection System
* Model: Consilium
* Manufacturer: Consilium
* Serial No.: 1234
* Equipment: Other
* Model: 77EVE
* Manufacturer: Menu
* Serial No.: Serial_CH_15
Serial CH-<15>:
* Data: Rudder order (automatic) ??HTC
* Equipment: No.1 ECDIS for TCS
* Model: JAN-9201
* Manufacturer: JRC
* Serial No.: LC33628

(View info screen)

Rudder order and response	Steering gear and autopilot	☒ HTD ☐ XDR ☒ ROR ☒ DRY-CON	☒ RSA ☒ ANALOG ☒ HTC	☒
Engine order and response	Telegraphs, controls and thrusters	☒ ETL ☒ RPM ☒ PRC ☐ RD ☐ ROR	☒ XDR ☒ ANALOG ☐ TRC ☐ DRY-CON ☐ RSA	☒
Wind speed and direction	Anemometer	MWV		☒
AIS	AIS	VDO,VDM, TXT		☒

Inputted +/-10V analog data of Rudder response and convert to XDR by analog interface

Dry Contact DSC Setting Analog I/F

Use	CH	Equipment	Contents	Comment	Detail
☒	1	Rudder Angle Indicator	Rudder response (manual)	NONE	Detail...

(VDR setting menu)

349
350 * Serial CH-<19>:
351 * Data: Analog data VRXDR??
352 Dry Contact Data ???
353 * Equipment: DSC
354 * Model: NCT-83
355 * Manufacturer: JRC
356 * Serial No.:
357
358

[2019/02/11 18:00:40.170] Serial_CH_19 SVRXDR.G.3.57.P.00.G.-2.65.P.01.G.-120.00.P.02.G.-120.00.P.03*67
[2019/02/11 18:00:40.290] Serial_CH_19 SVRXDR.G.-120.00.P.04.G.-120.00.P.05.G.-120.00.P.06.G.-120.00.P.07*4A
[2019/02/11 18:00:41.170] Serial_CH_19 SVRXDR.G.3.57.P.00.G.-2.63.P.01.G.-120.00.P.02.G.-120.00.P.03*61
[2019/02/11 18:00:41.280] Serial_CH_19 SVRXDR.G.-120.00.P.04.G.-120.00.P.05.G.-120.00.P.06.G.-120.00.P.07*4A
[2019/02/11 18:00:42.170] Serial_CH_19 SVRXDR.G.3.63.P.00.G.-2.87.P.01.G.-120.00.P.02.G.-120.00.P.03*6C
[2019/02/11 18:00:42.280] Serial_CH_19 SVRXDR.G.-120.00.P.04.G.-120.00.P.05.G.-120.00.P.06.G.-120.00.P.07*4A
[2019/02/11 18:00:43.170] Serial_CH_19 SVRXDR.G.3.74.P.00.G.-3.33.P.01.G.-120.00.P.02.G.-120.00.P.03*64
[2019/02/11 18:00:43.280] Serial_CH_19 SVRXDR.G.-120.00.P.04.G.-120.00.P.05.G.-120.00.P.06.G.-120.00.P.07*4A
[2019/02/11 18:00:44.160] Serial_CH_19 SVRXDR.G.4.39.P.00.G.-4.40.P.01.G.-120.00.P.02.G.-120.00.P.03*69
[2019/02/11 18:00:44.280] Serial_CH_19 SVRXDR.G.-120.00.P.04.G.-120.00.P.05.G.-120.00.P.06.G.-120.00.P.07*4A
[2019/02/11 18:00:45.160] Serial_CH_19 SVRXDR.G.4.86.P.00.G.-4.97.P.01.G.-120.00.P.02.G.-120.00.P.03*67
[2019/02/11 18:00:45.280] Serial_CH_19 SVRXDR.G.-120.00.P.04.G.-120.00.P.05.G.-120.00.P.06.G.-120.00.P.07*4A

Confirm "XDR" by Playback

(View info screen)

451 Containing dry-contact1 data ...
452 * dry-contact CH: 1 Event Message EVE 001_A/P:_NFU_ST...
453 * dry-contact CH: 2 Event Message EVE 002_A/P:_NFU_PO...
454 * dry-contact CH: 3 Event Message EVE 003_A/P:_NFU_ST...
455 * dry-contact CH: 4 Event Message EVE 004_A/P:_NFU_PO...

NFU Operation supply by dry-contact

(View info screen/Dry-Contact)

279 * Serial CH-<10>:
280 * Data:
281 M/E control order ??PRC
282 M/E control response ??RPM
283 Alarms ??ALA
284 Engine telegraph position ??ETL
285 * Equipment: M/E Remote Control System
286 * Model: M-800-V
287 * Manufacturer: NABTESCO
* Serial No.: 1234

(View info screen)

Alarms supply by "ALA", Write to Main alarms
(See previous page)

Wind speed and direction	Anemometer	MWV	☒	☐	☐
AIS	AIS	VDO,VDM.TXT	☒	☐	☐

281	* Serial CH-<17>:		
282	* Data:	Wind speed and direction	??MWV
283	* Equipment:	Anemometer	
284	* Model:	AT-3N	
285	* Manufacturer:	DAEYANG	
286	* Serial No.:	1111	

215	* Serial CH-<1>:		
216	* Data:	AIS own data	??VDO
217		AIS target data	??VDM
218		Status information	??TXT
219		AIS alert	??ALR
220	* Equipment:	AIS	
221	* Model:	JHS-182	
222	* Manufacturer:	JRC	
223	* Serial No.:	BB84170	

Alarms supply by “ALR”, Write to Main alarms

Hull opening status	All mandatory status information displayed on bridge	☒	☐	☐	☒
Watertight and fire door status	All mandatory status information displayed on bridge	☒	☐	☐	☒
Acceleration and hull stresses	Hull stress and response monitoring equipment	☒	☐	☐	☒
Rolling motion	Electronic inclinometer	☐	☐	☐	☒
Configuration data	Information of VDR and sensors	☒	☐	☐	☐
Electronic logbook	Electronic logbook	☐	☐	☐	☒

Sometime, supply by “DOR” or “DRY-Contact”

9. Change or repair of sensors		Yes	No	N/A
Check maintenance records of VDR		☒	☐	☐
Confirm any defective properly rectified		☐	☐	☒
Person authorized by the Manufacturer	Ship's representative			
Date	Date			

Ship's stamp and sign by captain

Stamp and sign by carried out Engineer

If any comments or remarks during APT, Please attach “Memo” with DVD.

Thank you.

*For any inquiries, or need further assistance,
please contact JRC COC Team.*

Email to: coc-tmsc@jrc.co.jp