ETELCARE BY TELKO

Feature guide

Version 1.01 - 2022.08.16

Approved by:

Knut Vidar Lauritsen, Bjørn Aarvold, Thomas Holtan

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TELCARE is our Software as a Service solution for both TECDIS and COASTAL E. With a subscription to TELCARE, you get access to all new software functions developed for TECDIS and COASTAL E.

In software versions 4.8.3.3, 4.8.3.4 and 4.8.3.5 we added great features such as TotalTide integration, Rendezvous, Drag 'n' drop editing of route lane and turn radius, Curved EBL, EMRI autopilot interface to Curved EBL, Speed To Go (STG) Calculator, Improved route monitoring, long heading line and GNSS jamming and spoofing via Orolia M-SecureSync. In version 4.8.3.6 we added support for Scandinavian Micro Systems Optical Bearing Device (OBD) to the list of TelCare features, with much more to come in version 4.8.3.8 and beyond.

Software upgrades

TECDIS development is continual, with new features frequently being added to the system.

With TELCARE, software updates are made available that add these new capabilities to existing TECDIS systems as the updates are released. This allows the system software to be up to date with all current and future software features of newer TECDIS models at all times.

TELCARE subscription status

With the addition of TELCARE you need a way to see if TELCARE is active on your system, and when the current subscription period ends.

To see if TELCARE is activated, simply open the chart information panel by:

- Pressing F4 on the keyboard, or
- Clicking on the "?" button in the chart menu.

If a valid TELCARE subscription is active, 'TELCARE' will be shown at the end of the 'TECDIS software' information.

To see when the current subscription period ends, place the cursor over the 'TECDIS Software' label, and the expiry date is shown in the hint text. You may also review the license information in TECDIS Setup (Service Key required).

TELCARE is administrated with license codes – you get a new code for each subscription period, directly from Telko.

Cell name	W-142 (Non-ENC)	í í	1 1
Edition	Edition 1, Update 1	Log Sa	fe TGT
lssue date	01. jan 2000	Setup Cha	rt Ship
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Safety contour	15m	✓ Profes	sional+(853
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Telcare expiry warning



When 14 or less days remain of the TELCARE subscription, a yellow notice is displayed in the upper middle part of the chart display with a hint text showing the number of days and to contact support service provider.

When the TELCARE subscription has expired, the notice is shown noting that TELCARE has expired and to contact support service provider until more than 30 days have passed since expiry.

TotalTide integration

TotalTide requires that Adimirality Digital Products (ADP) is installed on the the system, with a valid subscription to TotalTide.

ADP requires Windows 7 or newer, so TECDIS models 2026TC, 2138AA and 2138DA are not supported.



You open the Tides window by either clicking on a tidal stream station in the chart, or by clicking on the **Tide** button in the info panel. If you hover over the tidal station, you will see information about it in the chart.

Tide graph



The graph view shows you a tidal prediction graph, that can display up to 7 days of tidal data. If a minimum tidal height is configured, this will be indicated in the graph with red highlights for unsafe values.

Heights

3000															14	-
B 1000																
C 300	🧕 TotalTide tid	es at Alt	e Weser	Lighthou	ise (Ship	time)										×
D 100	View C Graph	28.1	1.2018	11:00	1.8m	13:00	2.4m	15:00	2.7m	17:00	3.0m	19:00	8.8m	21:00	8.3m	
E	• Heights	11:00	2.5m	12:00	2.4m	15:00	2.8m	17:00	3.1m	19:00	8.0m	21:00	2.7m	22:00	2.8m	
30	C HW / LW	12:00	2.9m	14:00	8.2m	16:00	3.1m	18:00	3.0m	20:00	2.6m	22:00	2.2m			
F 10	C Safe	13:00	3.3m	15:00	8.2m	17:00	2.9m	19:00	2.6m	21:00	2.1m	23:00	1.7m	05.12	.2018	
C	Gard	14:00	8.3m	16:00	8.0m	18:00	2.5m	20:00	2.1m	22:00	1.6m			00:00	1.6m	
3		15:00	3.1m	17:00	2.5m	19:00	2.0m	21:00	1.6m	23:00	1.2m	04.1	2.2018	01:00	1.1m	
RUTD		16:00	2.6m	18:00	2.0m	20:00	1.5m	22:00	1.2m		0.0010	00:00	1.2m	02:00	0.7m	
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2		20-00	0.00	22-00	1 1m	20:00	1.2111	02.1	1 1m	02-00	15m	04-00	2 1m	00:00	2.0m	
		21-00	0.9m	23-00	1.8m	01.1	2 2018	01-00	1.6m	03-00	2.2m	05-00	2.7m	07:00	3.3m	
RIS		22:00	1.7m			00:00	1.8m	02:00	2.3m	04:00	2.8m	06:00	3.3m	08:00	3.6m	
0		23:00	2.5m	30.1	1.2018	01:00	2.4m	03:00	2.9m	05:00	8.8m	07:00	3.6m	09:00	3.6m	
· ·				00:00	2.5m	02:00	3.0m	04:00	3.3m	06:00	3.5m	08:00	8.5m			
N		29.1	.2018	01:00	3.0m	03:00	3.4m	05:00	3.5m	07:00	3.4m	09:00	3.2m			
-		00:00	3.1m	02:00	3.4m	04:00	8.5m	06:00	3.4m	08:00	8.1m	10:00	2.6m			
2		01:00	8.4m	03:00	8.5m	05:00	3.3m	07:00	3.0m	09:00	2.5m	11:00	1.9m			
1		02:00	8.6m	04:00	8.4m	05:00	2.9m	00:00	2.5m	10:00	1.9m	12:00	1.3m			
A.		04:00	0.400 2.9m	00:00	2.3m	00:00	1.9m	10-00	1.3m	12-00	L dill	1/1-00	0.60			
<u></u>	Time Zone	05-00	2.0m	07-00	1.0m	09-00	1.0m	11-00	0.9m	12.00	0.0m	15-00	0.0m			
DEF	O UTC	06:00	1.7m	08:00	1.1m	10:00	0.8m	12:00	0.7m	14:00	0.9m	16:00	1.4m			
	C Local	07:00	1.1m	09:00	0.7m	11:00	0.7m	13:00	1.0m	15:00	1.4m	17:00	2.1m			
	- Ship	08:00	0.6m	10:00	0.7m	12:00	1.1m	14:00	1.5m	16:00	2.1m	18:00	2.7m			
	Date	09:00	0.6m	11:00	1.1m	13:00	1.7m	15:00	2.2m	17:00	2.7m	19:00	8.2m			
	28.11.2018 -	10:00	1.1m	12:00	1.8m	14:00	2.2m	16:00	2.7m	18:00	3.1m	20:00	3.5m			

This table shows you the hourly tidal height predictions for the coming 7 days.

NUTO									\$					8			P
h?							_				-				0	10	
3	TotalTide tide	es at l	Alte Wes	er Lighth	ouse	(Ship tim	ie)										×
RIS	View C Graph																<
<u>0</u>	Heights																
V	C Levels		28.11.20	018		29.11.2	018		30.11.2	018		01.12.2	018		02.12.2	018	
	odic		Time	Height		Time	Height	1	Time	Height		Time	Height		Time	Height	
		High	01:08 13:40	3.6m 3.4m	High	01:57 14:35	3.6m 3.2m	High	02:52 15:37	3.5m 3.2m	High	03:56 16:46	8.5m 8.1m	High	05:06 17:55	8.5m 8.2m	
A		Low	07:48 20:06	0.4m 0.7m	Low	08:39 20:59	0.5m 0.8m	Low	09:38 21:59	0.7m 0.9m	Low	10:45 23:10	0.7m 1.0m	Low	11:59	0.7m	
	Time Zone		03.12.2	018		04.12.2	018										16
DEF	CUIC		Time	Height		Time	Height	1									
	· Ship	High	06:15 19:00	8.5m 8.3m	High	07:21 20:00	3.6m 3.5m										
	Date Date 28.11.2018	Low	00:24 13:06	0.9m 0.7m	Low	01:32 14:07	0.8m 0.5m										

High water / Low water

This display of tides is the common format on paper. You see the ends of the tidal movement, and what time of the day that happens.

Levels

NUTO					\$	4	Z
h?			_	a.	Ŕ	100	
3	🧕 TotalTide ti	des at Alte Weser Lighthouse	(Ship time)			×	
nes ⁴	View Graph Heights HW/LW	1449 Alte Weser Lighthouse Secondary non-harmonic por 3 days after spring tide, 24	: (Time zone rt, Germany days to ful	: -0100) / Il moon		Find Station	<
	Time Zone C UTC C Local C Safe UTC C Local C Ship C Date ► 28.11, 2018 C	Highest Astronomical Tide Mean High Water Springs Mean High Water Neaps Mean Low Water Neaps Mean Low Water Springs Lowest Astronomical Tide	HAT MHWS MHWN MLWN MLWS LAT	4.1 m 8.7 m 8.8 m 1.0 m 0.5 m 0.0 m	Water levels in the Weser are r lowered in SE winds. Highest obs Lowest observed LW = 2.3m bel 3.1m below MHW.C#110;C#110;1 MLWS in German Waters must of heights above Chart Datum for f depths on those charts, in order water.	raised in WNW to NNW winds and served HW = 3.8m above MHW. low MLWS. Lowest observed HW = Mariners using charts referred to deduct 0.5m from all predicted tidal this port before applying them to the r to determine the correct depth of	

This panel gives you general information about the specific tidal station.

Safe

🚱 TotalTide ti	ides at Mellumplate I	(Ship time)							×
View	From	To	Duration	Predicted	safe wa	ater			
Graph Heights		28.11 19:12	9:11	periods fo					
HW / LW	28.11 20:56	29.11 07:26	10:29	⊡ min sa					
Levels	29.11 09:44	29.11 20:29	10:44		re due j	0.0 m	-		
 Safe 	29.11 21:27	30.11 08:35	11:07	Selected tide window					
	30.11 10:33	01.12 09:53	23:19	Port Mellumplate From 28.11 10:00					
	01.12 11:31	02.12 11:05	23:33						
	02.12 12:43	03.12 12:00	23:16	To	28.11	19:12	2		
Time Zone	03.12 14:02	04.12 00:57	10:54	Duration		9:11			
UTC	04.12 02:03	04.12 12:48	10:44	min.safe	0.8 m	WP	8		
• Ship	04.12 15:15	05.12 01:28	10:12						
Date >	05.12 03:30	05.12 09:55	6:24						
8.11.2018				Desele	ot tide v	vindov	N		

The most powerful tool is the Safe tide table, that helps you plan your voyage taking tidal windows into account. The table shows the available tidal windows, and all calculations are based on the specified minimum safe tide.

Tidal stream stations



Tidal Stream stations work similarly to the Tidal stations but use a different symbol in the chart.

Tidal Stream stations have similar functionality as the Tidal stations. The main difference is that rates and directions are displayed.

Single click chart loading for GNS

With charts from GNS (Global Navigation Solutions) and their Voyager solutions for chart delivery, you now benefit from the single click chart loading solution in the system.

Updating your charts is now as simple as updating the Voyager drive with the latest charts, placing it in the system, and start the chart loading when the following window automatically appears:

> >					V
	57 new cells Load charts f	found for (S63-GB to (S63-GB) now?	8).	Load Charts Later	

When starting chart loading manually, both cell permits, and chart updates are now loaded in the same process.

Rendezvous – Predictive vessel approach



This feature is a user request that we are thrilled to add to the system.

For any target, you can now activate Rendezvous – RDV, and the system will predict where on your route will meet that target. This function works for targets within

1 NM of your route, and predicts where the target will meet your vessel (assuming the target will move along the same path your route shows).

Rendezvous supports up to 8 targets simulatneously, and the prediction is updated every second.

The tool is simple to use:

- When the system predicts that you will meet a target along your route, a Rendezvous-symbol is shown over the route.
- The symbol indicates if the point is a meeting or an overtaking.
- If you hold the cursor over the symbol, TTG (Time To Go) for the meeting and target name is shown.
- If you click on the symbol, you can pick it up to slide it along your route to find the Speed To Go to alter the rendezvous point to that position. All other rendezvous symbols will move accordingly. Click again to release the symbol.

• The symbol is shown in a target specific colour to help you recognize what target you will meet and where. The symbol colour is matched with brackets around the target.



Transit conning



The mini conning has always been very useful for maneuvers and while anchored. Now we have improved on it, with the addition of a transit conning.

So now the most important sensor and voyage information is displayed with bigger text, in a clear and very readable conning window.

You can move the window around by dragging it with your cursor.

To access the Transit conning you simply click anywhere on the docking conning.

Curved EBL



This new feature is a real gem. Curved EBL is a visual indication in the chart display of potential turn to be executed according to a specific turn radius and new course (taking wheel over distance into account), assuming the turn is initiated at the time of display.



Curved EBL is accessible via a new checkbox in the **Ship** menu. When checked, a new **Curved EBL** panel is shown in the top right corner of the chart display.

The Curved EBL panel consists of a clickable title with 3 possible modes (left click on title changes between modes):

Curv	ed EBL - M	Man	ual
CRS	60.2 °		
Turn	0.10 NM		►
DST	0.5 NM		►

- Curved EBL Off: Not displayed in the chart.
- **Curved EBL Manual:** Displayed according to parameters set in the system.
- **Curved EBL AP:** Displayed according to turn radius and new course received from autopilot. Length and wheel over is still adjustable in the system.

This option is only available when information from the autopilot is received via **track control** or via the **Options 3 sensor** (only selected autopilots (EMRI / Furuno FAP, Raytheon Anschutz NP5500).

Curved EBL is displayed in the chart as a thick blue line starting at the conning position, extending straight for the wheel over distance, then turning according to the specified turn radius onto the specified new course and extending on this course until the total line length is of the specified distance.

If the specified distance is shorter than needed to complete the projected turn, the length is extended to the point of the projected turn.

- When using Curved EBL while in route monitoring, the curved EBL will assume that turns are triggered at the wheel over line.
- When the vessel passes the wheel over line, the curved EBL assumes that the turn is triggered at that point and starts counting down the curved EBL presented wheel over distance until it is 0.
- If the vessel starts turning before that point, the curved EBL presented wheel over distance is set to 0 at once.



Speed To Go (STG) calculator

The new Speed To Go (STG) Calculator is a feature available from the ETA calculator.

ETA calculator	STG calculator		
O WP1 O WP5	O WP1 O WP5	O WP1 O WP5	O WP1 O WP5
1 hr 48 min 13.35	8.7.19 STG 8.7.19	8.7.19 STG 8.7.19	8.7.19 STG 8.7.19
5.0 kn ≑ 9.0 NM	11.31 5.1 kn 1 3.16	11.81 3.6 kn 14.00	13.30 18.1 kn 14.00
	✓ Set ► ✓ Set ►	✓ Set ▶ ✓ Set ▶	✓ Set ► ✓ Set ►
Click to switch to STG	ETD and ETA from	Customized ETA.	Customized ETD
mode.	current speed.		and ETA

By clicking in the ETA calculator panel, the panel switches to an STG calculator mode. In this mode, you can set date and time for each waypoint (or own ship position) you have selected. When times are set for both waypoints, the required STG can be calculated and displayed.

When the STG calculator is shown, the ETA times are initialized with the current ETAs for the waypoints according to the current ETA mode (current / planned speed). If own ship position or waypoints behind the vessel are selected, the ETA time should be initialized to the current time.



If one of the selected endpoints is own ship, and the time specified is within 1 minute of the current time, that time should be updated according to current time on a continual basis while the calculator is displayed.

TTG calculations in the STG calculator

This is a special feature in the STG calculator, that allows you to calculate how long the current SOG can be maintained before speed must change to STG set in calculator to reach the set ETA.

The function is accessible by left clicking in the STG calculator (when own ship is selected as starting point).

TTG until STG	0	WP5	i
45 min 10 s		8.7	.19
Min STG		12	.19
5.0 kn 🗦	•	Set	▶

Use own ship as start or end point for ETA calculations

This is a simple and useful addition to the ETA calculator in the system. You can now use *own ship* as a start or end point for the ETA calculations.

By right clicking on your own ship and the waypoint you want to calculate to/from, the ETA calculator is shown. Right clicking your own ship again when already selected removes the ETA calculator.



Calculate default speed from ETD and ETA

Until now, it has been possible to specify a single date/time for a waypoint in the waypoint list, and all other times were updated according to route speed settings. However, ships typically have a fixed departure time and a fixed arrival time.

Adjusting your default speed to comply with those fixed departure and arrival times has worked, but it has also required multiple steps. We have simplified this functionality, and the following improvements is added to the system in this release:

When setting a fixed ETA, it appears in orange in the waypoint list.

If you add a fixed ETD as well, the default speed of the route will update accordingly.

If you postpone the ETD, the default speed will update accordingly.

⊢ Ed	it wayp.	wp	GC	Lat.	Lon.	Dist.	Course	Speed	Lane	Turn	ROT	Time	Delay	Text / Options
Defa	ult	1	00	61° 35.339' N	005° 03.482' E	0.1 NM	191.8°	5.0 kn	0.09 NM			09. 13:12		
Spd.	5.0 🔶	2	00	61° 34.967' N	005° 03.318' E	1.5 NM	237.9°	5.0 kn	0.04 NM	0.62 NM	8°/min	09. 18:18		
Lane	0.05	3	00	61° 33.976' N	005° 00.000' E	0.8 NM	121.9°	5.0 kn	0.04 NM	0.37 NM	13°/min	09. 13:31		
Turn	0 10	4		61° 33.633' N	005° 01.156′ E	6.6 NM	125.0°	5.0 kn	0.12 NM	0.10 NM	48°/min	09. 13:41		
Turn	10.10 ·	5		61° 29.882' N	005° 12.379' E							09. 15:00		
🖂 Lai	ne 🖂 Info													
Zone	1 🕂													

Lat.	Lon.	Dist.	Course	Speed	Lane	Turn	ROT	Time	Delay	Text / Options
° 61° 35.339' N	005° 03.482' E	0.1 NM	191.8°	2.8 kn	0.09 NM			09. 11:05		
° 61° 34.967' N	005° 03.318' E	1.5 NM	237.9°	2.8 kn	0.04 NM	0.62 NM	4°/min	09. 11:08		
° 61° 33.976' N	005° 00.000' E	0.8 NM	121.9°	2.3 kn	0.04 NM	0.37 NM	6°/min	09. 11:47		
° 61° 33.633′ N	005° 01.156' E	6.6 NM	125.0°	2.3 kn	0.12 NM	0.10 NM	22°/min	09. 12:08		
61° 29.882' N	005° 12.379' E							09. 15:00		
	61° 33.339′ N 61° 33.339′ N 61° 33.976′ N 61° 33.976′ N 61° 33.633′ N 61° 29.882′ N	Lat. Loni. 61° 35.339' N 005° 03.482' E 61° 34.367' N 005° 03.318' E 61° 33.397' N 005° 0.0000' E 61° 33.3976' N 005° 01.156' E 61° 33.832' N 005° 112.379' E	Lat. Dist. 61" 35.339" N 005" 03.482" E 0.1 NM 61" 34.967" N 005" 03.381" E 1.5 NM 61" 38.976" N 005" 00.000" E 0.8 NM 61" 38.387" N 005" 01.166" E 6.6 NM 61" 29.882" N 005" 12.379" E	Lat. Lott Just. Jourse 61*35.395*N 0005*03.482*E 0.1 NM 1918* 61*34.395*N 0005*03.482*E 1.5 NM 237.9* 61*38.396*N 0005*00.000*E 0.8 NM 121.9* 61*38.382*N 005*01.166*E 6.6 NM 125.0* 61*38.882*N 005*12.379*E	Lat. Dist. Dist. Durse Speed 6 17 35.339' N 005° 03.482' E 0.1 NM 191.8° 2.3 kn 6 17 34.3967' N 005° 03.318' E 1.5 NM 237.9° 2.3 kn 6 17 38.396' N 005° 00.000' E 0.8 NM 121.9° 2.3 kn 6 17 38.383' N 005° 01.166' E 6.6 NM 125.0° 2.3 kn 6 17 39.882' N 005° 12.379' E	Lat. Lonit Just. Jourse Speed Lane 61*35.339'N 005*03.482'E 0.1 NM 191.8" 2.3 km 0.09 NM 61*34.967'N 005*03.482'E 1.5 NM 237.9" 2.3 km 0.09 NM 61*38.396'N 005*00.000'E 0.8 NM 21.9" 2.3 km 0.04 NM 61*38.382'N 005*01.166'E 6.6 NM 12.9" 2.3 km 0.12 NM 61*23.882'N 005*12.379'E	Lat. Luii. Just. Jourse Speed Laire Turn 61* 35.389* N 005* 03.482′ E 0.1 NM 191.8* 2.3 km 0.09 NM 61* 34.396′ N 005* 03.313′ E 1.5 NM 23.79* 2.3 km 0.04 NM 0.62 NM 61* 33.376′ N 005* 00.000′ E 0.8 NM 121.9* 2.3 km 0.04 NM 0.82 NM 61* 33.376′ N 005* 00.000′ E 0.8 NM 121.9* 2.3 km 0.04 NM 0.37 NM 61* 33.837 N 005* 01.166′ E 6.6 NM 125.0* 2.3 km 0.12 NM 0.10 NM 61* 29.882′ N 005* 12.379′ E	Lat. Dist. Course Speed Late Turn Not 6 f1 35.389 N 005° 03.482′ E 0.1 NM 191.8° 2.3 kn 0.09 NM 6 f1 34.3967 N 005° 03.381′ E 0.1 NM 121.8° 2.3 kn 0.04 NM 0.52 NM 4°/min 6 f1 34.397 N 005° 00.000′ E 0.8 NM 121.9° 2.3 kn 0.04 NM 0.37 NM 6°/min 6 f1 33.337 N 005° 10.156′ E 6.6 NM 125.0° 2.3 kn 0.10 NM 22°/min 6 f1 29.382′ N 005° 12.379′ E	Lat. Loni. Joist. Jourse Speed Lane Juint ROT Inne 6 f1 35.339 N 005° 03.482 ' E 0.1 NM 191.8° 2.3 km 0.09 NM 09. 11:05 6 f1 34.367 N 005° 03.482 ' E 0.1 NM 191.8° 2.3 km 0.09 NM 09. 11:05 6 f1 34.367 N 005° 00.000' E 0.8 NM 121.9° 2.3 km 0.04 NM 0.37 NM 4'/min 09. 11:08 6 f1 38.383 ' N 005° 01.166' E 6.6 NM 121.9° 2.3 km 0.12 NM 0.37 NM 6'/min 09. 11:47 6 f1 38.383 ' N 005° 11:56' E 6.6 NM 125.0° 2.3 km 0.12 NM 0.10 NM 22'/min 09. 15:00 6 f1 29.882' N 005° 12:379' E 09. 15:00	Lat. Dist. Dist. Dust. Dust. <thd< th=""></thd<>

🗆 Edit wayp.	wp	GC	Lat.	Lon.	Dist.	Course	Speed	Lane	Turn	ROT	Time	Delay	Text / Options
Default	1	00	61° 35.339' N	005° 03.482' E	0.1 NM	191.8°	4.5 kn	0.09 NM			09. 13:00		
Spd. 4.5	2	0-0	61° 34.967' N	005° 03.318' E	1.5 NM	237.9°	4.5 kn	0.04 NM	0.62 NM	7°/min	09. 13:01		
Lane 0.05 📜	3		61° 33.976' N	005° 00.000' E	0.8 NM	121.9°	4.5 kn	0.04 NM	0.37 NM	12°/min	09. 13:21		
	4		61° 33.633' N	005° 01.156' E	6.6 NM	125.0°	4.5 kn	0.12 NM	0.10 NM	43°/min	09. 13:32		
	5		61° 29.882' N	005° 12.879' E							09. 15:00		
🖻 Lane 🖻 Info													
Zone -1													

So now, when you specify an ETD and ETA for any two waypoints along the route, a default speed for the route is calculated automatically. Of course, it accounts for stop times and fixed speeds on specific route legs, providing you with a ready to use default speed.

And note that you are not limited to the end points of the route; you can calculate the default speed between any of the waypoints in the route.

In order to set a new fixed time (shown in orange), remove an existing fixed time.

Scandinavian Micro Systems Optical Bearing Device (OBD) integration

When the system is interfaced with a Scandinavian Micro Systems Optical Bearing Device, the bearings provided by the device are shown and used in the system in several ways:

- Whenever the bearing device is operated, the bearing is shown in the system.
- When a bearing is 'triggered' on the bearing device, the bearing is added to the bearing list.
- When the Lines of Position feature is in use, 'triggering' bearings on the bearing device adds the bearing automatically in the Lines of Position interface.



Radar overlay

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The system can be configured to show the RADAR Overlay, elaborated by Furuno FAR-2xx7, FAR-2xx8 and FAR-3000 series and a selection of additional models (contact Furuno for details). When RADAR overlay is enabled, it can be activated from the Main toolbar by clicking on this icon or the F7 key.



Access to the configuration and settings of RADAR overlay is provided in the following way:

- 1. Press the **Menu** button.
- 2. Select the *Setup* menu tab.
- 3. Open the dropdown menu Chart Utilities.
- 4. Select Radar overlay setup.
- 5. A new *Radar overlay correction* window along with a sliding controller appear on the screen.

Chart utilities: Chart utilities: Chart library Manual chart update C-Map chart update Chart licenses INT-1 dictionary Radar overlay setup

COASTAL R

(COASTALONLY)

Coastal R requires a valid TimeZero Professional license for installation.

This feature provides integration of TimeZero with Coastal E. In Coastal you will get a **Chart – Radar** button to switch between chart and radar view with a simple click. This is a welcoming feature for smaller vessels in the way that you only need one screen for both charts and radar.

This feature will work with most radars in the Furuno lineup, including the FAR and DRS series.



Bow crossing calculation, presentation and chart display



Bow crossing range (BCR) and bow crossing time (BCT) is now added to TECDIS with Telcare. This includes:

- Calculation of BCR and BCT when CPA is calculated.
- Presentation of BCR and BCT values in the target dialog.
- Graphical presentation of bow crossing for one target in the chart.

BCR and BCT values are added to the AIS Target dialog, and a checkbox to enable display of the BCR situation graphically in manner similar to the existing CPA feature.

Option for red land colours in S52 night palette



It is now possible to configure TECDIS to show land areas with red colour when the night palette is in use. The feature is activated by setting TELchart.ini [Options] value "red_s52_night=1".

While the red night colours are shown, a "Non-standard presentation mode" notice is shown in the upper middle part of the chart display. Clicking this notice changes colours to standard night colours. This change persist until the next palette change.

If needed, the red land colours may be adjusted by modifying the TELchart.ini [Options] value "red_s52_reduce_blue".

Larger time display



Tecdis 4.8.3.7 introduces an option for displaying the current time in a larger, more readable form. Click the current date or time in the upper right corner to toggle display of a larger clock panel in the upper right corner of the chart display.



Option for controlling of display of waypoint numbers

A requested feature to be able to control whether waypoint number texts are displayed in the chart or not is added.

In the waypoint dialog, a checkbox for toggling display of route waypoint numbers is shown instead of the route time zone controls when TELchart.ini [Options) value "route_show_num_control" is set to 1.

Bearing list output to Telscope



When TECDIS is used in combination with TelScope, it is now possible to transfer bearings and position fixes to TelScope with two buttons that have been added to the Bearing List:

- **Send**: Sends the selected observations out to TelScope.
- **Send EP**: Sends the selected observations and an estimated position out to TelScope.

Revisions

Version	Date	Changes made	Signed
1.00	2022.02.09	Initial release	TH
1.01	2022.08.16	Added Telcare features from TECDIS update 4.8.3.7 and visual changes	ТН



www.furuno.no Sjømannsvegen 19 6008 Ålesund Norway



www.telko.no Ødekjærveien 27 3145 Tjøme Norway