



Creators of TECDIS

Feature Guide: TELchart ECS 3.7.x.32

With the release of TELchart ECS 3.7.x.32 we are providing you with several new features and bug fixes. This release features all important changes that have been released for TECDIS in versions 25-32. For a complete list, see the release history on www.telko.no. Here you will also find Feature Guides for previous releases.

Here is a guide to the main new features to TELchart ECS in this release:

Important: Changes unique to TELchart ECS

In this release we have made some changes that are not present in TECDIS:

- **Antigrinding window is now also an overview window**

A big change in this release is in the new features of the antigrinding window. Before it only displayed the area around and ahead of the vessel, and you could zoom in and out on smaller scales.

Now it displays a larger scale chart than the main chart window, and a rectangle inside indicates the location of the main chart window. This is an aid when you are panning the charts, as it gives you a reference for both the scale and extent of your current chart scale in the main window.

You can now zoom in and out using all scales available in TELchart ECS.

The antigrinding function is still present, as the window will revert to the familiar antigrinding look when an antigrinding alert is raised.

- **Choose what color scheme to use:**

TECDIS has been updated with a new interface look, with new colors and improved icons. In TELchart ECS this change is optional, and by default the color scheme is not changed.

To change color scheme, contact Furuno Norway for instructions.

- **Click and drag chart panning**

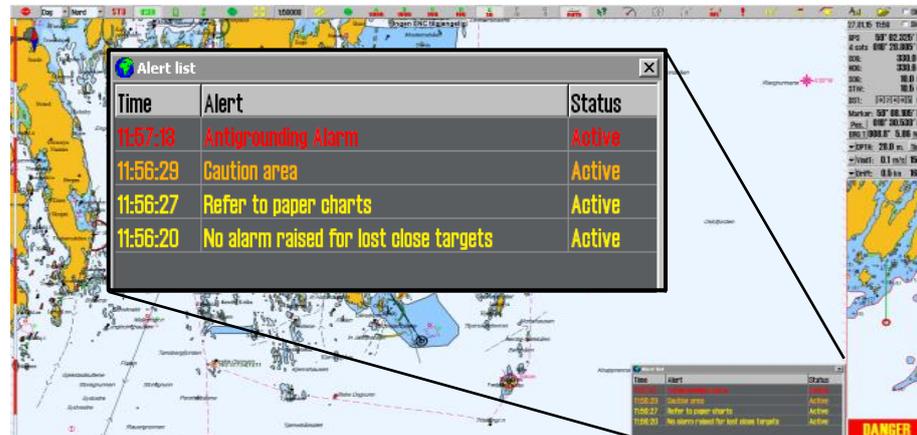
You can now click in the charts, hold down the button, drag the cursor, and you will pan the charts in that direction.

- **CPA alerts are moved to the Safe menu:**

As of version 30, TECDIS no longer displays CPA alerts. In TELchart ECS, this restriction is not needed, so CPA alerts are still available. The option is placed in the *Safe* menu.

Important behavior change: Alert handling

In this release we have made important changes to the alert handling in TELchart ECS in order to comply with updated alert handling requirements.



Most changes affect all TELchart ECS installations, and the most important are:

- Redesigned alert field and alert counters:**
Red: Alarm **Orange:** Warning **Yellow:** Caution
- Alert sounds have been changed, to further avoid alert blindness.**
 The alert sound is as follows:
 - Unchecked alarm(s): three short beeps, repeated every 8th second
 - Unchecked warning(s): two short beeps, repeated every 4,8 minutes
- New and changed alerts**
 The following changes affect new installations only. Alerts are unchanged on update of an existing installation, but the changes may be activated by a service technician:
 - Route critical point* is now a **Warning** (cat A)
 - Lost sensor COG/SOG* alerts are removed
 - Lost sensor Heading* (warning) is only activated if the system cannot automatically change to a valid alternative sensor.
 - New *Lost sensor Heading* (caution) is activated when the system detects a heading sensor loss and automatically changes to a valid alternative sensor.
- Chart license alerts have changed:**
 From now on you only get alerts if more than half your chart licenses expire in the coming 14 days/have expired in the last month.

Important behavior change: Chart overscale/underscale notification

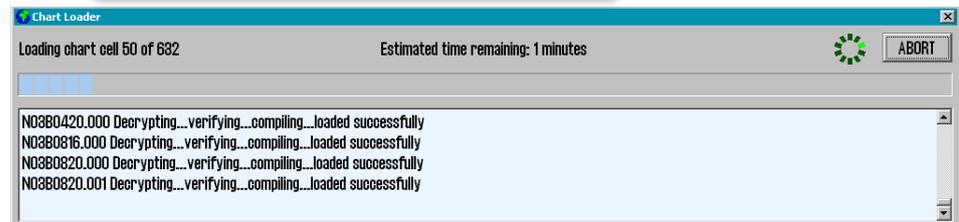
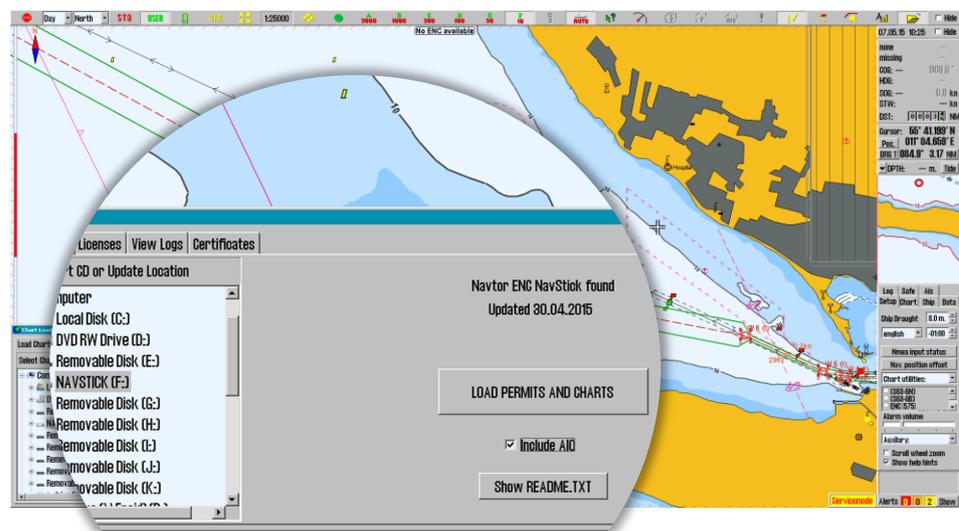
As part of the new interface color use, the chart over/underscale notification in the main toolbar has been improved. This is the new design of the notification:

Chart overscale	Compilation scale	Chart underscale
1:100 000	1:120 000	1:300 000

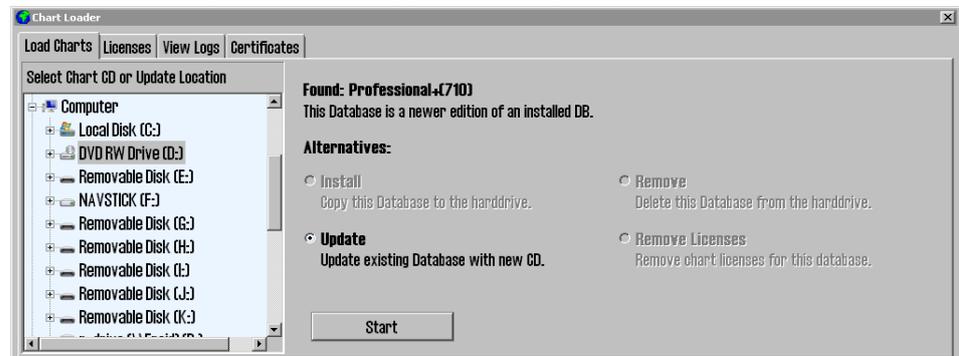
New feature: Chart loading inside TELchart ECS

The main feature of this release is chart loading in the TELchart ECS program itself. So now you can update your chart database *without* exiting TELchart ECS, and as long as you have more than one database, you will have a chart view while the database is updating.

When you have Navtor AVCS with AIO, you can choose to have the AIO data installed in the same session. Chart loading in TECDIS is supported for all chart formats and services; **Jeppesen C-Map**, **S63** and **S57**. The interface is based on the *S63 Chart Loader*, and has been tweaked for optimum performance.



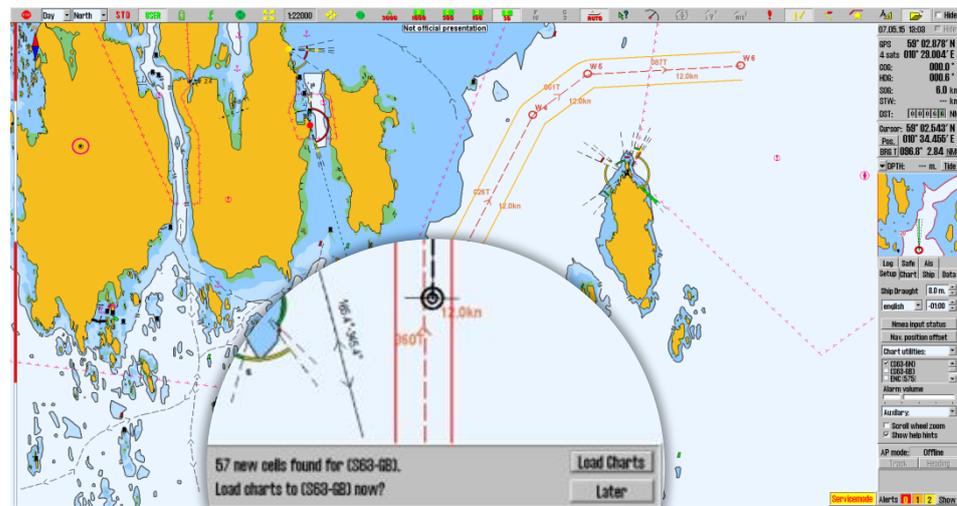
The chart loading window for Jeppesen C-Map charts:



New feature: 1-click chart install/update

In addition to chart loading in TELchart ECS, we are adding **1-click chart install/update** in TELchart ECS as well. *This is supported for all charts except S57.*

When charts have been loaded manually the first time, you can later just insert new chart media (Navstick, C-Map DVD, S63 base media), and the system will auto-detect if there are updates or new chart cells. When you have Navtor AVCS with AIO, the AIO data will also be updated when you update the charts.



If the chart media is on a network drive, TELchart ECS will check for updates every hour.

Note: Chart licenses have to be entered manually. The exception is if you are using *Navtor Navstick* or *Nautisk exchange sets* with bundled cell permits.

Important behavior change: The Standard (STD) button

STD

The Standard/STD button in TELchart ECS **previously** changed to standard chart presentation and removed all auxiliary information such as windows, symbols, tracks, targets and layers.

Now, due to changes in the rules, this is split into two functions:

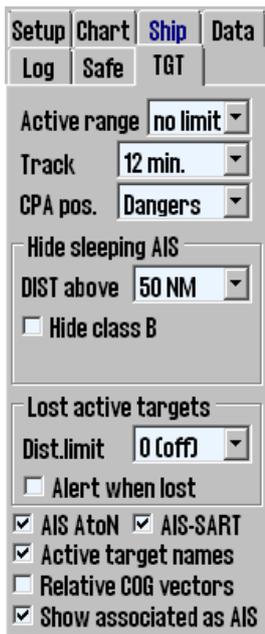
Left click on the STD button	Changes to standard chart presentation. Only chart settings are affected.
Right click on the STD button	Hide all auxiliary information displayed over the charts, except own vessel and selected route

This allows you to quickly check the charts in their standard presentation as before, but you will not at the same time remove the windows and functions you are using unless you want to.

Improved: AIS menu is now TGT menu

As many improvements and new features in this release are related to target handling, we decided to overhaul the AIS menu. It now controls the settings for both AIS and radar targets, and a name change was needed.

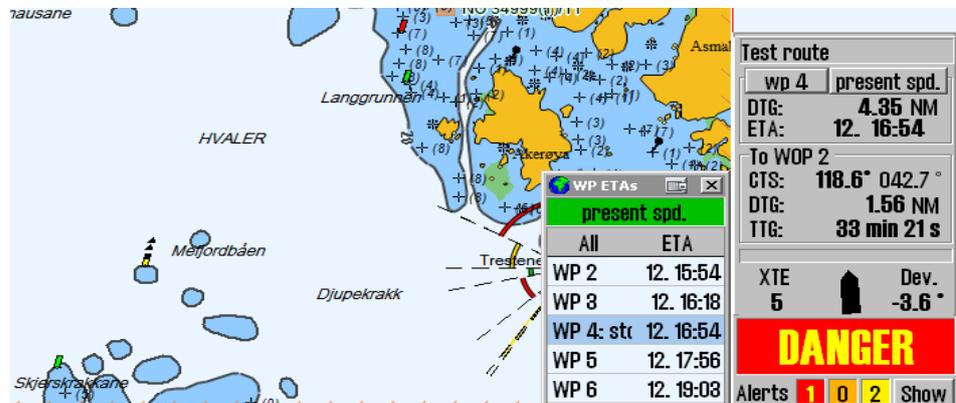
The redesigned Target/TGT menu offers more customization of target settings than before, in a simpler interface. Here are the menu functions described:



Function	Description
Active range	Filters which targets are shown as active based on the distance to own vessel. This makes it possible to view all targets with course, COG-vector and past track line. To remove the distance limit and display all targets as active, select No limit . When targets are outside the distance limit, they will change to sleeping mode. This can be overridden in the target window, by selecting Activate .
Track	Track specifies the length of the past track lines for the targets. It is specified in minutes of travel.
CPA pos.	Manual: Displays CPA positions manually for each target from the target window. If the target window is open, the CPA position will be displayed regardless if the CPA is in the past or future. When it is closed, only future CPA will cause CAP position to be displayed. Dangers: Same as above, but in addition CPA position will be displayed for all targets the radar classifies as dangerous. All active: CPA position is displayed for all active targets with CPA in the future. If you open a target window, only the CPA for that vessel will be displayed, and CPA positions will be displayed even if CPA is in the past.
Hide sleeping AIS	
DIST above	Hides sleeping AIS targets beyond this radius
Hide class B	Removes the display of all class B targets beyond the active range distance setting
AIS AtoN	Turns on the display of Aids to Navigation (AtoN) symbols
AIS-SART	Turns on the display of Search And Rescue Transmitter (SART) symbols
Active target names	When selected, displays target names on all active targets
Relative COG vector	Sets all AIS target COG vectors to be relative to own vessel movement. If not selected, targets use true course and speed.
Show associated as AIS	This displays targets associated with both AIS and radar as AIS targets.

Improved: ETA list now displays TTG and DTG

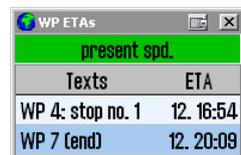
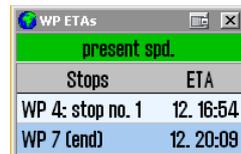
We have made big changes to the ETA tools in TELchart ECS, and they are now more integrated and powerful than ever before.



The biggest change is the addition of an **ETA list**, showing the current ETA times for all your waypoints. The list view can be customized to show you:

- All waypoints, with ETA
- Waypoints with text descriptions, and their ETA
- Waypoints with delays (i.e. all stops you have planned), and their ETA

by clicking on the title (All, text, stop)

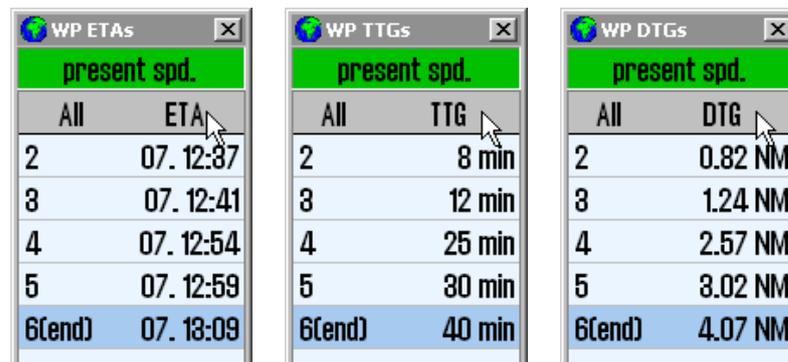


The displayed ETA can also be switched between:

- ETA in the same time zone as the TELchart ECS
- ETA in the UTC time zone
- ETA in the time zone of the route

by left-clicking on the ETA title

In addition to showing the ETA, you can toggle to view Time-To-Go (TTG) and Distance-To-Go (DTG) as well. You toggle by right-clicking with the cursor placed over the ETA title.



The different ETA, TTG and DTG windows.

By clicking on the waypoints in the ETA list, you also select them as your ETA point. And if you right click on two of waypoints in the list, you will activate the ETA calculator.

In addition, these customizations are transferred to the other ETA tools, such as the ETA calculator and the ETA display in the route monitoring. You can also switch from present speed to planned speed, and the change will appear in all places.

Based on user feedback we have also highlighted the present speed setting with a green background.



Important behavior change: Special Condition Areas

An important change you will experience is that *New Caution* has been renamed to **Area with Special Conditions**. This is part of changes to the Alert handling changes (see next feature).

New Caution was classified as a warning alert, while **Area with special conditions** can be set as either warning alert or caution alert by the user. *In the new alert handling, warnings emit alert sounds.*

Area with special conditions includes chart caution areas and restricted areas.

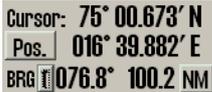


Areas with special conditions are by default classified as *Warning alerts*. This can be changed in the *Safe* menu, by deselecting the **Spec. cond. area** setting.

Improved: New presentation of cursor info, EBL/VRM and distance/course for route/line/circle

In this release you will experience a major overhaul of the information panel in TECDIS. We have updated both functionality and look of the cursor info field. To improve the functionality of the different functions embedded in this small field, we have split the information in three panel sections:

Cursor info panel:



Cursor: 75° 00.673' N
Pos. 016° 39.882' E
BRG T 076.8° 100.2 NM

Cursor position and bearing/distance from own vessel position



Cursor: 74° 48.279' N
Pos. 015° 07.692' E
082.0° 74.6 NM

Cursor position and enlarged bearing/distance from own vessel position



Cursor: BRG T DIST
Pos. 041.6° 6.62 NM

Cursor bearing/distance from own vessel position



Cursor: BRG T DIST
083.0° 3.33 NM

Enlarged cursor bearing/distance from own vessel position

These panels always show the bearing and distance from the vessel to the cursor. The four cursor panels share the same location, and you toggle between them by clicking on the panel itself. One of the panels is always displayed.

EBL/VRM panel:



EBL T 039.1° 6.86 NM

Bearing and distance for the EBL/VRM tool



EBL T VRM
053.8° 8.17 NM

Enlarged view of bearing and distance for the EBL/VRM tool



EBL T VRM
000.0° 1.00 NM

Configurable bearing and distance for the EBL/VRM tool

The three EBL/VRM panels share the same location, and you toggle between them by clicking on the panel itself. The panels are only displayed when the EBL/VRM tool is activated.

The third panel allows you to set a bearing that is not attached to the cursor. You can modify the bearing and range/distance with the arrow buttons, by text input, and the bearing can be set with the bearing circle; click and hold your cursor on it and when you move the cursor the bearing moves as well.

Route/line/circle panel:

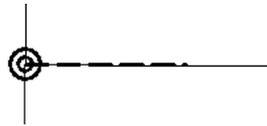


Cursor: 59° 00.747' N
Pos. 010° 35.048' E
BRG T 111.8° 3.37 NM
CRS T DIST
051.4° 1.67 NM

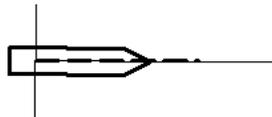
The course and distance from the circle centerpoint or last plotted point on lines/routes. The route/line/circle panel is non-configurable.

Improved: Display of own ship symbol

A smaller but still noticeable change in TECDIS is the new transition rules for the own vessel symbol. Own vessel symbol in TECDIS is either a double circle, or a true scale vessel outline.



If the vessel symbol is smaller than 3 mm on the screen, it will be displayed as a double circle, regardless of the settings.



If it is bigger than 3 mm, it will be displayed according to the settings in the **Ship** menu.

Also, the vessel will not be displayed with a true scale outline without a known heading.

These improvements allow for more charted information to be displayed near the vessel when you are using bigger scaled charts.

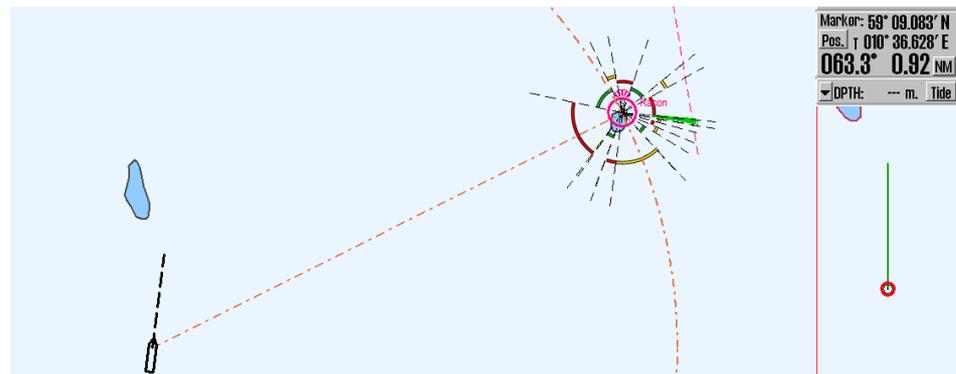
Improved: Stern-facing sightline added

We have added a new sightline for the route tool. This sightline faces to the stern, and aids you when you are planning your route with visual navigation in mind.



Improved: EBL/VRM snap to light

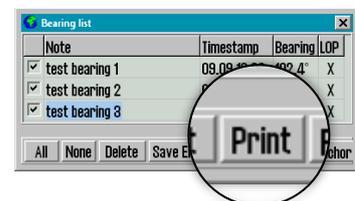
With active lights enabled in TELchart ECS, you can now anchor/target your EBL/VRM bearing to lights with snap functionality. This makes it much easier to target the bearing to the lights, as it automatically centers the bearing on the GPS coordinates of the light.



Note that **light cursor info**, **active lights** or **active lead sectors** must be active for this feature.

Improved: Print button added to the bearing list

This improvement comes to aid those who use the bearing list for voyage reports. With the new print button in the bearing list, you can now easily print the bearing list to a text file, instead of exporting to a csv file which requires further formatting.



Improved: Initial ETA from AIS

This is both a fix and an improvement. The initial ETA displayed in the AIS window for your own ship is now set from AIS data.

Also, you can now set ETA parameters in the AIS as unavailable by selecting the added choice “---”. A partially available ETA will then be broadcasted as “**14/07 ---**”, which only displays the date.

Improved: TELchart ECS response indicator

To ensure that users can see clearly if TELchart ECS is unresponsive, we have added a flashing colon symbol to the clock in the information panel. TELchart ECS may become temporarily unresponsive when performing heavy tasks such as chart loading, and this is perfectly normal. With this unobtrusive indicator you can easily check if the system is unresponsive/hangs, and for how long.

Long chart redraw times are indicated with an incrementing chart redraw timer, as before.

Improvement: Dual TECDIS Keypad



In this release we have added support for a second connected TELchart/TECDIS Keypad. This allows vessels with limited space to operate their TELchart ECS from two locations.

Improved: Aids to Navigation symbols

In this release all Aids to Navigation (AtoN) symbols have been updated. Here are the main symbols and their use:

Symbol	Use
	Basic shape
Racon err 	Racon error
Off Posn 	Off position
Missing 	Intended location of missing AtoN
Unlit 	Light is unlit
	Virtual AtoN - basic shape

The AtoN type can be displayed with an auxiliary symbol above the main AtoN symbol.

Improved: AIS-SART handling in TELchart ECS



The display of AIS SART (Search and Rescue Transmitter) targets in TELchart ECS has changed to reflect new requirements:

- Active SART targets are no longer displayed in red
- SART targets does not display a heading vector
- When AIS message 14 is received, the text contents of the message is used in the target status.
- AIS-MOB and EPIRB-AIS targets are displayed the same way

Improved: AIS target names displayed in S52

By default, names for AIS targets will now be displayed on the target graphic in S52 presentation mode as it has been for a while in INT1. The difference is that in S52 mode the target name will be displayed without a frame.

Display of target names can be removed in the TGT menu.

Improved: AIS and Radar target buttons are not deactivated on sensor timeout

When all data from a target sensor (AIS/Radar) are lost, all targets from that sensor will be lost.

You will however still have access to AIS and Radar buttons on the main toolbar. In previous versions of TELchart ECS, they would become greyed out and unavailable.

For more information on fixes and minor improvements in this release, see <http://telko.no/site/support/TELchart-ECS/Release-History>