

OVERVIEW	2
1.1. NOTICE, WARNING AND DISCLAIMER	
1.2. INTRODUCTION	
1.3. ABOUT THIS GUIDE	
SECTION 1: HOW TO	3
1.1. How to install the S63 Loader	
1.2. How to access the S63 Loader software	
1.3. HOW TO GENERATE A USER PERMIT FILE	
1.4. HOW TO LOAD CELL PERMITS (CHART LICENSES)	
1.5. How to load charts	
1.6. HOW TO REVIEW LOGS AND UPDATES	
1.7. How to install certificates	
SECTION 2: TROUBLESHOOTING	
2.1. CHART LOADING	
2.2. ERROR CODES	
APPENDIX A: REVISION HISTORY	

Overview

1.1. Notice, warning and disclaimer

# NOTICE, WARNING AND DISCLAIMER

THE TECDIS SYSTEM AND ASSOCIATED NAVIGATION PRODUCTS INCLUDING THE ELECTRONIC CHART DISPLAY AND AUTOMATIC NAVIGATION AND TRACK KEEPING SYSTEM ARE AIDS TO SAFE MARINE NAVIGATION.

ALL SUCH NAVIGATION AIDS ARE SUBJECT TO CERTAIN INACCURACIES AND DISCREPANCIES THAT, IF UNCONSIDERED, MAY RESULT IN A MARINE ACCIDENT OR INCIDENT, AND CONSEQUENT LOSS OF LIFE, VESSEL, CARGO AND ENVIRONMENTAL DAMAGE.

ACCORDINGLY, THE MARINER WILL NOT RELY ON A SOLE NAVIGATION AID (INCLUDING THE TECDIS SYSTEM) FOR THE SAFE NAVIGATION OF THE VESSEL.

THE PRUDENT MARINER WILL OBTAIN NAVIGATION INFORMATION FROM ADDITIONAL SOURCES, CROSS-CHECKING ALL INFORMATION FOR ANY INACCURACIES OR DISCREPANCIES WHILE DETERMINING THE VESSEL'S POSITION, COURSE, SPEED AND INTENDED TRACK.

## 1.2. Introduction

The Telko S63 Chart Loader (S63 Loader) allows you to load electronic maritime charts in the S63 format onto the TECDIS electronic chart system and prepare them for use in navigation. The S63 Loader also provides facilities for user permit generation, management of S63 cell permits and management of certificates.

## 1.3. About this guide

This guide is divided into two main sections. The first (Section 1: How to...) provides step-bystep instructions for common operations. The second section (Section 2: Troubleshooting) explains error messages and suggests remedial actions.

#### Section 1: How to...

In this section, step-by-step instructions for common usage of the S63 Loader is provided.

#### 1.1. How to install the S63 Loader

- 1. Place the file 'S63LoaderInstaller.exe' on a CD, DVD or USB memory stick.
- 2. Insert the TECDIS Service Key.
- 3. Exit the TECDIS software. This will make the Windows Desktop available.
- 4. Insert the CD, DVD or USB memory stick from step 1.
- 5. Open 'My Computer' and locate the 'S63LoaderInstaller.exe' file and start this file by double clicking.

Teks 5-53 Dart La	Webcore to Tello 142 (Duer Loader (H 123) Febru pogram This pergram will need Tello 162 (Duer Loader (H 123 on poer torquee.	Tells 2-63 Chart Louise (v1.02)	Start bestähelsen
	It is strongly recommended that pay and all blocks programs before serving the bang tellipse. Disk Concerting the bang and place any programs pay have serving. Out there is contract with the finally program. WWWMMI, The programs is promoted by compared to any estimational beams estimation of the program is any place of the program of public of the programs to estimate of any program is any public of the programs to estimate of any program is any public of the programs to the service of any compared base, and will be provided by the investment network provides under law	Sing of and Table 1.63 Data (Layter (H 10) in the Making Male. To and An a Wand Male, State Saver, and only only only only only only only only	The are non-negly to head Table 1410 (head particle by FEE) Prove for front bulkers to longe the headshire in the East Labors to server the modulate estimation
	gel Level	violadam Viad	vine Soldana Vine#

6. Press 'Next' on each of the three dialogs that are shown (see above).



- 7. After the installation is complete, press 'Finish' on the new dialog that is shown (see above).
- 8. Remove the TECDIS Service Key.
- 9. Reboot the system.

#### 1.2. How to access the S63 Loader software

The S63 Loader cannot be accessed from the main TECDIS software user interface. Follow these steps to start the S63 Loader.

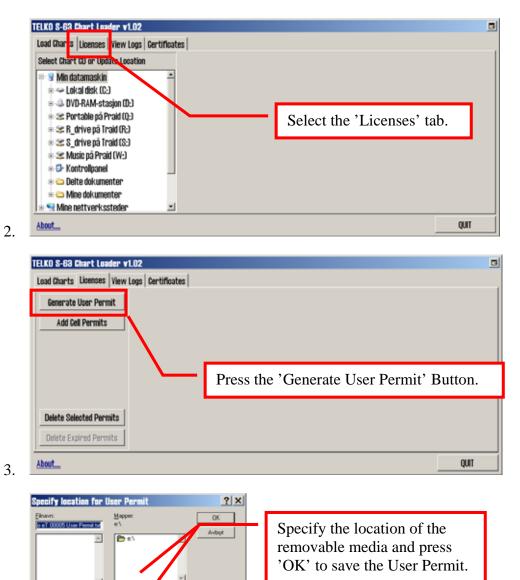
- 1. Insert the TECDIS Service Key.
- 2. Exit the TECDIS Software. This will make the Windows Desktop available.
- 3. Double click on the 'S63 Loader' icon.
- 4. Wait for the software startup procedures to complete. If any errors are reported, refer to Section 2: Troubleshooting.

#### 1.3. How to generate a User Permit file

Before cell permits can be provided by a chart supplier, a user permit file needs to be sent to the chart supplier. Follow these steps to generate this user permit file. (These steps assume that the S63 Loader has been started and is ready.)

Important: Verify with your chart system provider that the system license dongle has been prepared for S63 use. If this is not the case, the system license dongle may need to be sent to the manufacturer for updating.

1. Insert removable media such as a USB memory stick into the TECDIS.



4.

er Permit Text File 💌

٠

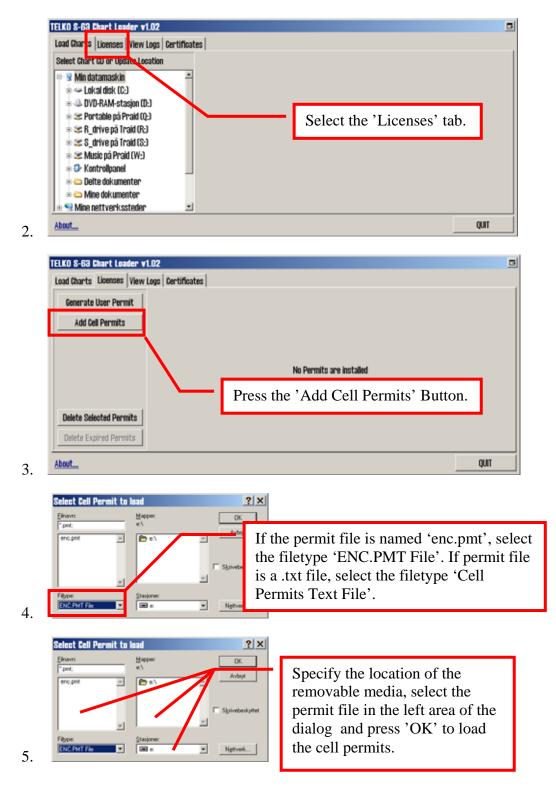
Ngtiverk...

5. Remove the removable media from the TECDIS and send the user permit file now contained on it to the chart supplier.

#### 1.4. How to load cell permits (Chart Licenses)

Cell Permits (chart licenses) are provided by the chart supplier as either a .txt file (typically permit.txt), a file named 'enc.pmt', or both. **If both are provided, it is recommended that you use the .txt file.** 

1. Place the permit file provided by the chart supplier on removable media such as a USB memory stick, and insert this into the TECDIS system.



Japan Hydrographic Association Australian Hydrographic Service ChartWorld GmbH & Co KS ECC AS G-Map Norway AS / C-Map Ioda Pvt. Ltd Interior Use the following data s Select and Continue G. Specify Cell Permit Source: The cell permit file does not specify the of that has provided the permit. Please specify the of that has provided the permit. Please specify the of that has provided the permit. Please specify the of that has provided the permit. Please specify the of that has provided the permit. Please specify the of that has provided the permit. Please specify the of that has provided the permit. Please specify the of the permit Please specify the of the permit. Please specify the permit. Please specify the of the permit. Please specify the of	spt.	PM	ic w tl	dentity of vill appe he list a	of the clear. Sele nd press	hart sup ect the o s 'Selec also do	ot contain oplier, this chart supp et and Con uble-click	s dialog plier fro ntinue'	om
The cell permit file does not specify the that has provided the permit. Please spe									
agency for the permit: Primar Kelvin Hughes Japan Hydrographic & Oceanographic De Japan Hydrographic & Asociation Australian Hydrographic Service ChartWorld Gmbl & Co KS ECC AS C-Map Norway AS / C-Map India PvV tto Market View the following data s Select and Continue Cancer	scife the sou		ent ma suj co Th	ter the ' anually. pplier li de' and e correc	data ser Mark t st, enter press '' ct 'data	ver coo he chec r the tw Select a server	ot listed, y de' for the k box bel to digit 'd and Contin code' can chart sup	e suppli ow the ata ser- nue'.	ier
TELKO S-69 Chart Lunder v		-				-			D
Load Charts Licenses View Generate User Permit	Provider	Cell Name	Edition	and the second se	issued Date	Expiry Date	Comments		8
Add Cell Permits	A	NO2A0404 NO2A2804	1	X	28.03.2008	28.03.2009			
Installed Cell Permits Valid: 903 Expires in 30 days: 0 Expired: 0	PM I PM I PM I PM I	NOZI <mark>Telko</mark> NOZI	8-63 Cha			× 1.2009			
	PM I	N02				3.2009			
Delete Selected Permits	and the second s	N02A3252	1	x	28.03.2008	28.03.2009			
Delete Expired Permits	11111	N02A3268	1	X	28.03.2008	28.03.2009			
	PM I	N0213820	1	¥	28 03 2008	28 03 2009		OUIT	-

8. If no problems are encountered, a message indicating successful cell permit loading will appear, indicating the number of loaded permits. Press 'OK' to close this message, and the permit loading process is complete.

The 'Licenses' tab will now display details about the loaded cell permits, color coded according to permit expiry status.

#### 1.5. How to load charts

Encrypted charts are provided by the chart supplier on one or more CDs/DVDs. The chart loading process uses the installed cell permits to decrypt chart cells, verify the cells against the S57 standard, and compile them into SENC format (CM93/3) used in the TECDIS system.

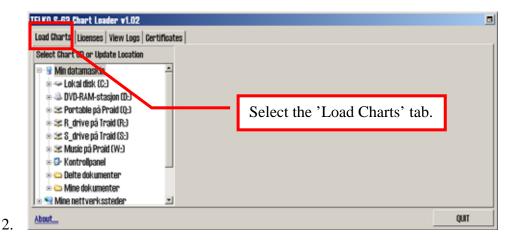
The chart supplier can provide two types of chart media: **BASE** media, and **UPDATE** media. If both are provided and chart loading is to be performed for the first time, *the BASE media must be loaded first and the UPDATE media second*. Care must also be taken that the UPDATE media is loaded in the correct order according to date/sequence labelling on the media.

The chart media is checked for authenticity (using the installed certificates) during the chart loading process. If the determined confidence of authenticity is low, the system will provide a number of warnings that must be overridden by the user in order to load the charts. *This can be avoided by installing certificate files from the chart supplier (See section 1.7. How to install certificates)*. Certificate files for PRIMAR (ECC) is preinstalled.

Note that the first chart loading process for a new chart supplier can be time consuming, and may take many hours. Loading of UPDATE media takes less time. For instance, loading all norwegian ENC cells takes approximately 9.5 hours on the TECDIS system. Loading UPDATE CDs for the same selection typically takes between 30 minutes and 1 hour on the TECDIS system.

Use the following procedure to load chart CDs / DVDs:

1. Place the chart CD/DVD corresponding with installed cell permits into the CD/DVD drive of the TECDIS system.



3.

Load Charts   Licenses   View Logs   Certificate Select Chart CD or Update Location	5	
Image: Second state of the second	Select the CD/DVD drive. The chart media will be checked for authenticity and presence of licensed chart cells.	
Sony Ericsson File Manager		•

4. Detailed information about the chart media is displayed. The upper area includes information about the chart supplier, the type of CD (BASE / UPDATE), issue identification, publication date and number of chart cells present on the media. The number of chart cells with valid chart licenses is indicated as well.

TELKO S-63 Chart Loader v1.02		
Load Charts Licenses View Logs Certificat	es	
Select Chart CD or Update Location	S-63 Source Found: Primar BASE CD, Issue: WK49-07 Publication Date: 05.12.2007 Number of cells: 2065 (2050 with valid cell permits)	Chart media details
🛚 🖙 Lokal disk (C:)	Number of cells: 2065 (2050 with valid cell permits)	
© VOTXO1CD-) © SE Portable på Praid (Q;) © SE R_drive på Traid (R;) © SE S_drive på Traid (S;)	Confidence of authenticity is High (6) ENDs are signed by Primar, confirmed with trusted certificate. (+4) Data Server certificate is provided and matches a trusted certificate. (+1) Data is provided by a known data server. (+1) IHO certificate is not provided. (+0)	Authenticity information
<ul> <li>See Music på Praid (W:)</li> <li>Kontrollpanel</li> <li>Delte dokumenter</li> </ul>	Ino del clinado la linc ja d'Aldeo, 1400	
Mine dokumenter     Sonv Ericsson File Manager	LOAD CHARIS Show README.TXT 🕫 Ignore S-57 Impor	rt Errors / Warnings
About		QUIT

The middle area provides a **Confidence of Authenticity** score from 0 to 10. Confidence of Authenticity starts at 0 when chart media is analyzed, and is modified by a number of factors, as detailed in the table on the next page.

A confidence score of 0-3 is categorized as **Low**, a score of 4-5 is categorized as **Medium**, and scores of 6-10 are categorized as **High**.

If the Confidence of Authenticity is 0, it is not possible to load the chart media.

This score, and the detailed information in grey below the score should be used to determine whether the chart media is authentic and can be trusted to originate from the correct chart supplier.

Value	<b>.1: Confidence of Authenticity</b> Dislpayed Text	Explanation
+0	ENCs are not properly	The chart media must include a signature for each chart
	signed, data authenticity	on the meda. These signatures are verified by the
	cannot be confirmed!	system.
+2	ENCs are signed with	
. –	included data server	If the ENCs are signed by IHO or the supplier and this
	certificate.	is confirmed with the installed certificates, the
+4	ENCs are signed by	authenticity of the data has been <i>independently</i>
	XXX, confirmed with	confirmed and the data can be trusted.
	trusted certificate.	
+7	ENCs are signed by IHO,	If the ENCs are signed and this is confirmed with a
	confirmed with trusted	certificate included on the media. This only verifies that
	certificate.	the signatures are technically correct. Since the
		certificate is included along with the data, the origin of
		the data is <i>not</i> independently confirmed.
		If the ENCs are not properly signed, the chart CD is not
		valid according to the S63 standard specification.
+0	Data Server certificate is	The chart media may or may not include a chart supplier
	not provided.	(Data Server) certificate.
+0	Data Server certificate is	
	provided, but does not	If this certificate is provided and is identical to one of
	match any trusted	the installed and trusted certificates, this provides
	certificates.	another independent confirmation of the media
+1	Data Server certificate is	authenticity.
	provided and matches a	
	trusted certificate.	
+0	Data is not provided by a	The system includes an internal list of known S63 chart
	known data server.	suppliers (Data Servers). If the chart media is sourced
+1	Data is provided by a	from one of these known suppliers, this is a positive
•	known data server.	indicator of authenticity.
+0	IHO certificate is not	The chart media may or may not include an IHO
. 0	provided. IHO certificate is	certificate file.
+0	provided, but does not	If this certificate is provided and is identical to the
	match trusted IHO	installed IHO certificate, this provides another
	certificate.	independent confirmation of the media authenticity
+1	IHO certificate is	
1.	provided and matches	
	trusted IHO certificate.	
-1	ENC signature files are	If the chart media does not include signatures for the
	not present.	charts on the media, the authenticity of the chart data
		cannot be confirmed.
-1	ENC signature file	If the chart signature checksums are invalid, the
	checksums are invalid.	signature files may be manipulated and cannot be

Table 1.5.1: Confidence of Authenticity details

5.

Select Chart CD or Update Location	S-63 Source Found:	Primar BASE CD, Is	sue: WK49-07	
<ul> <li>B Min datamaskin</li> <li>Lokal disk (C-)</li> <li>O 101X01 (D-)</li> <li>Portable på Praid (Q-)</li> <li>R_drive på Traid (R-)</li> <li>S_drive på Traid (S-)</li> <li>S_drive på Traid (S-)</li> <li>Music på Praid (W-)</li> </ul>	Publication Date: Number of cells:     Confidence of autheni ENCs are signed by Pi Data Server certific Data is provided by a IHO certificate is not	rimar, confirmed with ate is provided and na known data serve :	Press the 'Show README.TXT and read the rel for the chart me	f' button ease notes
Or Kontrolipanel     Oelte dokumenter     Oelte dokumenter     One dokumenter     Okumenter     Okumenter     Okumenter	LOAD CHARTS	Show READ	ME.TXT 🛛 Ignore S-67 Import	Errors / Warnings

6. The 'Ignore S-57 Import Errors / Warnings' checkbox should be set according to the oprerator's preferences.

If this is not checked, the chart loading process will stop when S57 verification of the chart data produces warnings or errors. The warnings / errors will be displayed and the operator can determine if the chart should be loaded, skipped or if the loading process should be aborted. This requires the operator to be present for the entire chart loading procedure.

If this is checked, chart loading will continue automatically regardless of S57 verification errors / warnings encountered. Charts will only be skipped if *critical* errors are encountered. The display will provide no details on encountered S57 errors / warnings. Note that the log for the chart loading session should be inspected on completion of the loading process. The log will include details of all warnings / errors.

TELKO S-63 Chart Loader v1.02			
Load Charts Licenses View Logs Certificate	es		
Select Chart CD or Update Location	S-63 Source Found:	Primar BASE CD, Issue: WK49	-07
₽ 9 Min datamaskin ▲ ₽ ∞ Lokal disk (C:)	Publication Date: Number of cells:	05.12.2007 2065 (2050 with valid cell p	ermits)
© <u>V01X01(0;)</u> © ≤ Portable på Praid (0;)		imar, confirmed with trusted o	
⊕ S R_drive på Traid (R:) ⊕ S Larive på Traid (S:)	Data is provided by a	te is provided and matches a tr known data server. (+1) www.ided 6-62	usted certificate. (+1)
<ul> <li>S Music på Praid (W:)</li> <li>B Kontrolipanel</li> </ul>	IHO certificate is not (	nrovided, L+UJ	
e 🗅 Delte dokumenter e 🗅 Mine dokumenter	LOAD CHARTS	Show README.TXT	☑ Ignore S-57 Import Errors / Warnings
Sonv Ericsson File Manager			
About			QUIT

When ready, press the 'LOAD CHARTS' button to start the loading process.

	TELKO 8-63 Chart Loader 🔀	т
	Manine Confidence of authority in the first fee this C CO data annual	11
	Warning: Confidence of authenticity is low for this S-63 data source! This means that the system cannot independently verify the authenticity of the charts.	is
	Do you still want to load?	to
	Ja Nei	W
7.	<u>Fo</u> Luôn	u

If the confidence of authenticity is **Low**, a warning is displayed to confirm that the operator wants to load from the unauthenticated chart media. 8. The chart loading starts and the progess interface is displayed.

	<b>/</b> Time estimate	Abort button
Activity	TELKO S-63 Chart Loader v1.02 Loading chart cell 2 of 2046 Estimated time remaining: 7 hours, 39 minutes ABORT	1
indicator		Progress
	Starting import of Primar BASE CD, Issue: WK49-07 (4 cells have already been installed and have been skipped) NO2A2820.000 Decryptingverifyingcompilingloaded with WARNINGS (See Log)	bar
	N02A2820.001 Decryptingverifying	
		Progress details

The loading process will start with analyzing the charts that have previously been loaded. The 'Activity indicator' will display 'Initiating...' during this process. This may take several minutes if a larger number of ENCs from the chart supplier have been installed previously.

If any of the charts cells present on the media have been installed previously, these will be skipped and the 'Progress details' area will contain information about this.

Once the chart loading has started, the 'Activity indicator' and 'Progress bar' will show the chart loading progress by number of charts loaded. The 'Time estimate' text will provide an indication of how much time remains. *Note that this estimate is based on the average time consumption per chart loaded and may not be very accurate until a sufficient number of chart cells have been loaded*.

The 'Progress details' area will provide details on the loading process and the results of loading each chart cell.

The 'Abort' button can be pressed at any time. The chart loading will be stopped when this button is pressed. Charts that already have been loaded will be available in the TECDIS system, and loading of the same media can be restarted later at the same point by following this procedure again.

9. If 'Ignore S-57 Errors / Warnings' was not selected before starting the chart loading, the chart loading process will be paused each time S57 verification produces errors / warnings.

TELKO 8-63 Chart Loader v1.02			⊡
S63 Import Errors Report	🗆 Ignore S-57 Errors / Warnings	Continue Skip	Stop
Chart: NO2A2836.000 Non critical errors Loading chart Error: ILG01011 meaningless value of 'watlev' in «Underwater/awa: Error: ILG01011 meaningless value of 'watlev' in «Underwater/awa:	sh rock.» 70°01'17.45"N : 23°12'15.71"E sh rock.» 70°12'08.57"N : 23°09'30.78 sh rock.» 69'59'28.56"N : 23°18'27.51" sh rock.» 70°30'54.47"N : 23°08'39.63 sh rock.» 70'53'05.50"N : 23°12'59.69 sh rock.» 70°30'28.64"N : 23°12'59.69 sh rock.» 70°33'28.64"N : 25°49'43.33 sh rock.» 70°49'43.43"N : 25°49'43.43 sh rock.» 70°49'43.43"N : 25°49'48'49.00 sh rock.» 70°31'56.78"N : 25°46'40.61' sh rock.» 70°31'56.78"N : 25°36'40.61'	: "E "F "T "T 3"E 3"E 3"E 3"E "E "E	

The operator can inspect the reported warnings / errors, and determine if the chart should be loaded regardless of the errors / warnings by pressing 'Continue', or if the chart should be skipped by pressing 'Skip', or if the chart loading process should be cancelled by pressing 'Stop'

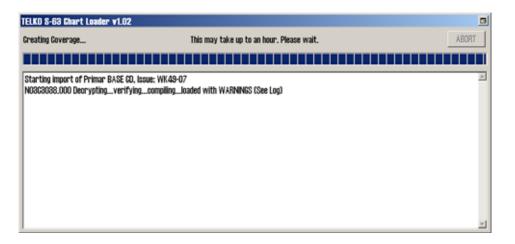
#### If the operator is uncertain whether S57 errors / warnings encountered may have an impact on chart validity and navigation, the chart supplier should be consulted.

The operator can also choose to ingnore further errors / warnings by checking 'Ignore S-57 Errors / Warnings'.

10. If authentication of any chart cells fails during chart loading, the following message will appear:

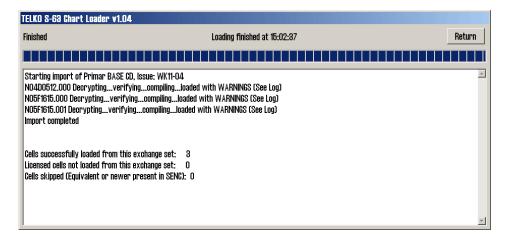


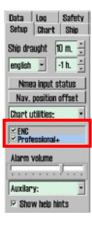
It is possible for the operator to override authentication failure and continue loading the chart cell by pressing 'Yes'. **This should be used with caution, and only if the operator is certain on the authenticity of the data**. If this is done, all remainings charts in the loading process will be loaded regardless of further authentication failures. Pressing 'No' allows the operator to skip the chart in question, and pressing 'Cancel' aborts the loading process. 11. When all chart cells have been loaded, the system must update chart coverage and internal data. This process cannot be aborted, and may take up to an hour.



12. When the chart loading process has been completed, the following display is shown. The operator may inspect the progress details for the entire loading process. The number of cells successfully loaded, not loaded, or skipped (not needed) are reported. Complete the chart loading by pressing the 'Return' button.

Any chart cells that have not been loaded are listed after import completion.





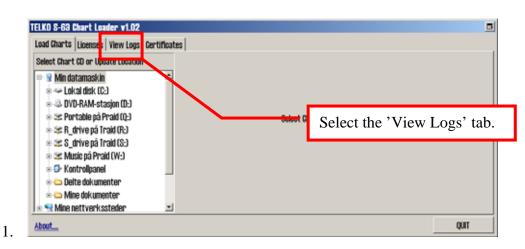
The loaded charts are now available as a chart database from within TECDIS. A separate database will be produced for each S63 chart supplier charts have been loaded from.

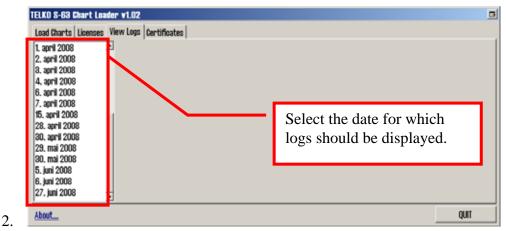
The database name follows the following form: "(S63-XX)", where XX is the chart supplier code. For instance, charts loaded from the chart supplier Primar will be available in the database (S63-PM).

The database will be available for display selection in the 'Setup' folder in the TECDIS menus.

#### 1.6. How to review logs and updates

Chart loading logs are available from within the Telko S63 Loader. These logs contain all the details of the S63 loading sessions that have been performed.





3. S63 loading logs for the selected date is displayed. Note that this window may be resized if needed.

ELKO S-63 Chart Lo	-			1
Load Charts   Licenses	5 V	IEW LOGS	Gertificates	
1. april 2008 2. april 2008 3. april 2008			19:55 Starting import of Primar BASE CD, Issue: WK49-07 19:55 Confidence is Low (3)	Î
4. april 2008			ENCs are signed with included data server certificate. (+2)	
6. april 2008			Data Server certificate is provided, but does not match any trusted certificates. (+0)	
7. april 2008			Data is provided by a known data server. (+1)	
15. april 2008	iii		IHO certificate is not provided. (+0)	
28. april 2008				
30. april 2008		27.06.08	19:55 CD contains 2065 cells (2050 with valid cell permits)	
29. mai 2008		27.06.08	19:55 N02A0404.000 Decryption	
30. mai 2008		27.06.08	19:55 N02A0404.000 S57 Verification	
5. juni 2008		27.06.08	19:55 N02A0404.000 CM93/3 Compilation	
6. juni 2008		27.06.08	19:55 N02A0404.000 loaded successfully	
27. juni 2008	-	•		v
About				QUIT

4. Details on chart updates installed are available from within TECDIS, in the 'C-Map chart update' interface, under 'Updating Log Review Updates'. Refer to the TECDIS Operator's Guide for details.

#### 1.7. How to install certificates

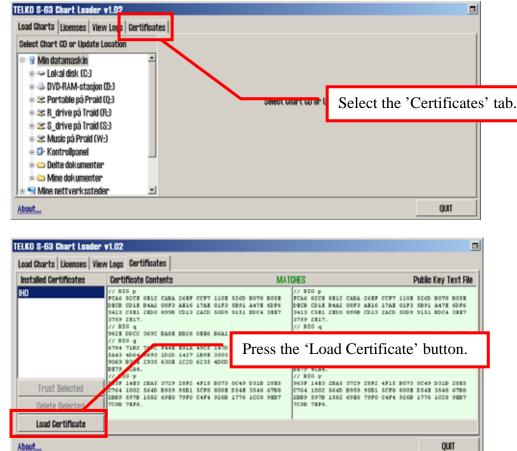
Certificates are used by S63 Loader to verify signatures and authenticity of chart cells and media. Two preinstalled certificates are provided, from IHO and PRIMAR.

If charts are to be loaded from other suppliers, it is strongly advisable that the certificate of the chart supplier is installed prior to starting chart loading.

S63 Loader requires two files to install a certificate: 1. A .CRT certificate file, and 2. A public key .txt file. **These files should be obtained from the chart supplier.** They should both be named with the name of the chart supplier in upper case.

Use the following procedure to load the certificate:

1. Place the certificate files provided by the chart supplier on removable media such as a USB memory stick, and insert this into the TECDIS system.



3.

2.



Specify the location of the removable media, select the .CRT certificate file in the left area of the dialog and press 'OK'. 5. If S63 Loader cannot find the public key .txt file in the same location as the certificate file, the following message is displayed:



Press 'OK' to specify the location of the public key .txt file.

Specify Public Key fi		
Filiper Public Key File	Mapper: OK Help: c1. LoSTay/cer/Henc2 Code Co	Specify the location of the removable media, select the .TXT public key file in the left area of the dialog and press 'OK'.

7. If the certificate is valid and the public key file matches, the following message is displayed:



8. The certificate has now been loaded, but will not be used in S63 loading until the operator has speficied that it is trusted. The contents of the certificate and the public key text file is shown side by side in the main area of the display. These displays will match if the certificate is valid. These displays are green if the certificate matches the public key file and 'MATCHES' is displayed above the contents. If the contents does not mach, these displays are red and 'MISMATCH' is displayed above the contents.

nstalled Certificates	v Logs Certificates Certificate Contents		MAT	OUE2	Public Key Text File
					Public Key Text File
10	// BIG p			// BIG p FCA6 SZCE SE12 CABA 26EF CCF7 :	
RIMAR (not yet trusted)	FCA6 S2CE SE12 CABA 26E DECE CD1E B4A2 OSF3 AE1			DECE CD18 B4A2 08F3 A816 17AE 0	1108 526D 8078 8058 0183 5891 1478 6D86
and the fac of bacada	3413 C581 2800 0990 CD1			3413 CSE1 2EDO 0990 CD13 2ACD 1	CALL COLL DATE CALL
	3759 2817.			3759 2817.	
	// BIG q			// BIG q	
	962E DOCC 369C BASE ED2	6 OREG BGA1 26		PSZE DDCC D69C BAOR BB26 ORES I	D6A1 2609 0468 0805.
	// BIC g			// BIG g	
	6704 71D2 7A9C F44E E91			6704 7182 7A9C F44E E91A 49C5 1	tere passo passe tere
	5A43 4D64 8693 1D2D 142			5A43 4D64 8693 1D2D 1427 1B9E :	
	9069 B32K 2935 630K 1C2 B879 4CA4.	0 6235 4DOD AZ		9069 B32E 2935 630E 1C20 6235 4 BE79 4CA4.	4DOD AZOA 6C41 6ESO
	// BIG y			// BIG y	
	AAZS DESE COCA S687 S00	1 3800 D572 D4		AAZS DESE COCA SEET SDOL DEDE I	572 D47C B3F3 80D0
Trust Selected	7315 EA47 B106 26BA C38			731D EA47 B106 24BA C387 C1FA :	
	76BE 5825 6E07 A74D 607	7 7A58 7B78 34	55 7108 2110	7688 5825 6807 A74D 607F 7A5E 1	7878 3455 71D8 2110
Delete Selected	4COA C4BF.			4C0A C4BF.	
00010 0000000					
Load Certificate					
Luga est allogre	Contact the certificate su	ipplier to indepe	ndently confirm c	certificate authenticity	

If desired, this certificate content can be verified directly with the certificate supplier as well. Once the operator is confident that the certificate can be trusted, this is done by pressing 'Trust Selected'.

9. Once the certificate has been trusted, the following message is shown, and certificate loading is complete.



This page is intentionally left blank.

#### Section 2: Troubleshooting

Consult this section if any errors are encountered during chart loading or other S63 Loader operations.

#### 2.1. Chart Loading

During S63 chart loading, the progress log may indicate warnings, errors or critical errors with a chart cell. Details regarding these warnings and errors can be looked up in the log viewer interface in S63 Loader.

If unsure about the significance of a given warning or error reported in the logs, contact your chart supplier for advice.

If any chart cells are not loaded, the progress window will report any cells with valid cell permits that have not been loaded after completion of the loading process. The detailed log for these cells should be inspected and the chart supplier should be contacted for advice.

#### 2.2. Error Codes

In all cases when S63 Loader fails to perform an action, the reason for the failure is indicated with an error message. Consult the following table for details and remedial action.

Error Message	Reason	Action	
System files not found!	The S63 Loader installation is corrupt.	Repeat the installation of S63 Loader, following section 1.1 in this guide, or contact your TECDIS support contact.	
Format error loading installed cell permits	The cell permit storage has become corrupted.	Exit S63 Loader, delete the file C:\ Program Files\ TECIDS\ S63SYS\ PMT.DAT and reload all cell	
Failure to access cell permit storage	The cell permit storage has become corrupted.	permits.	
No eToken detected	The hardware codeplug in not connected to the system is missing or defective.	Verify that the hardware codeplug is connected to the system. If so, contact your TECDIS support contact.	
Etoken interface error	The hardware codeplug driver and support files on the system are missing or corrupt.	Contact your TECDIS support contact.	
Error initializing C-Map interfaces	Critical system components are missing or corrupt.		
Detected codeplug is not a Telko eToken	The hardware codeplug connected does not contain a valid TECDIS license.		

#### **Table 2.1: Error Descriptions**

Error in C-Map registry settings	System settings for the hardware codeplug are missing or corrupt.	Contact your TECDIS support contact.
Error reading data from eToken	The hardware codeplug in not connected to the system is defective.	
Error writing data to eToken	The hardware codeplug in not connected to the system is defective.	
SSE 17 - Userpermit is invalid (checksum is incorrect). Check that the correct hardware device (dongle) is connected or contact your system supplier to obtain a valid userpermit.	The hardware codeplug need to be updated by Telko AS before it can be used for S63 chart loading.	
SSE 18 - HW_ID is incorrect format		
Unable to initialize GeoDatabase components	Critical system components are missing or corrupt.	
SSE 02 - Format of SA Self Signed Key file is incorrect. A new SA public key can be obtained from the IHO website or from your data supplier.	During application startup: The affected certificate public key text file is invalid. During loading: The specified certificate public key text file is invalid.	During application startup: Remove the affected certificate, obtain a new copy of the certificate and public key text file from the chart supplier or your TECDIS support contact and load the new certificate.
SSE 03 - SA Signed Data Server Certificate is invalid	During application startup: The affected certificate file or it's companying public key text file has become corrupted. During loading: The specified certificate file does not match the specified public key text file.	During loading: Obtain a new copy of the certificate and public key text file from the chart supplier or your TECDIS support contact and attempt certicficate loading again.
SSE 04 - Format of SA Signed DS Certificate is incorrect	During application startup: The affected certificate file has become corrupted. During loading: The specified certificate file is corrupt or not a valid certificate file.	
SSE 05 - SA Digital Certificate (X509) file is not available. A valid certificate can be obtained from the IHO website or your data supplier	During application startup: The application can not find the IHO certificate file. During loading: The application can not find the specified IHO certificate file name.	

SSE 06 - The SA Digital Certificate (X509) is invalid. The SA may have issued a new public key or the ENC may originate from another service. A new SA public key can be obtained from the IHO website or from your data supplier SSE 07 - SA signed DS Certificate file is not available. A valid certificate can be obtained from the IHO website or your data supplier	During application startup: The IHO certificate file or it's companying public key text file has become corrupted. During loading: The specified IHO certificate file does not match the specified IHO public key text file. During application startup: The application can not find the specified certificate file. During loading: The application can not find the specified certificate file name.	During application startup: Remove the affected certificate, obtain a new copy of the certificate and public key text file from the chart supplier or your TECDIS support contact and load the new certificate. During loading: Obtain a new copy of the certificate and public key text file from the chart supplier or your TECDIS support contact and attempt certicficate loading again.
SSE 22 - SA Digital Certificate (X509) has expired. A new SA public key can be obtained from the IHO website or from your data supplier.	The IHO certificate present on the system (or being loaded) has expired and is not valid.	
SSE 22 - Digital Certificate (X509) has expired. A new public key can be obtained from your data supplier.	The specified certificate present on the system (or being loaded) has expired and is not valid.	
SSE 24 - ENC Signature format incorrect, contact your data supplier.	The signature file for an S63 encrypted cell on the chart media is invalid.	Contact your chart supplier.
SSE 16 - ENC CRC value is incorrect. Contact your data supplier as ENC(s) may be corrupted or missing data.	The signature file for an S63 encrypted cell on the chart media is corrupt.	
SSE 09 - ENC Signature is invalid	Signature authentication has failed for an S63 encrypted cell on the chart media is invalid.	
SSE 11 - Cell Permit file not found. Load the permit file provided by the data supplier.	During loading: The specified cell permit file was not found or was not possible to load.	Loading: Verify that the specified file name exists and is readable by the system (try copying the file to another location to verify this).
	During deletion: The specified cell permit was not found in internal cell permit storage (already deleted).	Deletion: Exit and restart S63 Loader and recheck the cell permit list. If the cell permit in question is still present on the list, delete the file C:\ Program Files\ TECIDS\ S63SYS\ PMT.DAT and reload all cell permits.
SSE 11 - Cell Permit file contains no permits. Contact your data supplier and obtain a new permit file.	The specified cell permit file does not contain any cell permits.	Contact the source of the permit file and request a new permit file.

SSE 12 - Cell Permit format is	During application startup: The cell	During appplication startup: Exit
incorrect. Contact your data supplier and obtain a new permit file.	permit storage has become corrupted.	S63 Loader, delete the file C:\ Program Files\ TECIDS\ S63SYS\ PMT.DAT and reload all cell permits.
	During loading: The cell permit file being loaded is corrupted or incorrectly formatted.	During loading: Verify that the specified file is a permit file. If so, contact the source of the permit file and request a new permit file.
SSE 13 - Cell Permit is invalid (checksum is incorrect). Contact your data supplier and obtain a new permit file.	During application startup: The cell permit storage has become corrupted.	During appplication startup: Exit S63 Loader, delete the file C:\ Program Files\ TECIDS\ S63SYS\ PMT.DAT and reload all cell permits.
	During loading: The cell permit file being loaded is corrupted.	During loading: Contact the source of the permit file and request a new permit file.
SSE 14 - Incorrect system date, check that the computer clock (if accessible) is set correctly or contact your system supplier.	The system date has been set back.	Restore the correct system date. If the problem is still present, contact your TECDIS support contact.
SSE 21 - Decryption failed no valid cell permit found. Permits may be for another system or new permits may be required, please contact your supplier to obtain a new licence.	The S63 encrypted cell file for a chart cell is corrupt, or incorrect / outdated cell permits are present	Obtain current and valid cell permits from you chart supplier, and load these cell permits in S63 Loader. Retry the chart loading process. If the problem persists, contact
SSE 19 - Permits are not valid for this system. Contact your data supplier to obtain the correct permits.	The cell permit for one or more S63 encrypted cells does not contain the correct decryption keys.	your chart supplier.
SSE 15 - One or more ENC subscriptions in this cell permit file have expired. Please contact your data supplier to renew the subscription licence.	One or more of the cell permits in the cell permit file being loaded have expired.	Obtain current and valid cell permits from you chart supplier, and load these cell permits in S63 Loader.
SSE 15 - All ENC subscriptions for this ENC media have expired. Please contact your data supplier to renew the subscription licence.	All cell permits for ENC cells present on the chart media have expired.	
SSE 15 - Subscription for this ENC has expired. Please contact your data supplier to renew the subscription licence.	(In logs) The ENC cell permit for the specified ENC cell has expired, and the ENC cell has not been loaded.	

WARNING: SSE 15 - One or more ENC subscriptions have expired. Contact your data supplier for a subscription renewal.	During application startup: One or more of the ENC cell permits installed have expired. During loading: One or more ENC cell permits present in the cell permit file being loaded have expired.	Obtain current and valid cell permits from you chart supplier, and load these cell permits in S63 Loader.
WARNING: SSE 20 - One or more ENC subscriptions will expire in less than 30 days. Contact your data supplier for a subscription renewal.	During application startup: One or more of the ENC cell permits installed will expire in less than 30 days.	
	During loading: One or more ENC cell permits present in the cell permit file being loaded will expire in less than 30 days.	
SSE 20 - Subscription for this ENC will expire in less than 30 days. Please contact your data supplier to renew the subscription licence.	(In logs) The ENC cell permit for the specified ENC cell will expire in less than 30 days.	
ENC File not found	The S63 encrypted cell file for a chart cell is missing from the installation media.	Contact your chart supplier.
ENC signature file not found	The signature file for an S63 encrypted cell on the chart media is missing.	
ENC Edition number is invalid	The ENC edition number for a chart cell on the chart media is invalid.	
ENC Update number is invalid	The ENC update number for a chart cell on the chart media is invalid.	
SERIAL.ENC file is invalid	An essential file in the S63 data source is corrupt or invalid.	
CATALOG.031 file is invalid	The S63 data source catalog file is invalid or corrupt.	
Specified path does not contain valid S63 data	The specified path does not contain a valid S63 data source.	Verify that the specified path contains an S63 data source.
This system does not support the S63 version of specified data	S63 Loader only supports S63 data format version 1.0 and 2.0 of the S63 standard. The specified S63 source uses a different version.	Contact your chart supplier and request S63 media following version 1.0 or 2.0.
This system does not support this cell permit version	S63 Loader only supports cell permit format version 1 and 2 of the S63 standard. The specified cell permit file uses a different version.	Contact your chart supplier and request cell permits following version 1 or 2.

eToken components!

SA digital certificate has not yet been trusted Certificate has not yet been trusted	An IHO certificate has been loaded, but has not yet been marked as trusted. The specified certificate has been loaded, but has not yet been marked as trusted.	Inspect the certificate in the S63 Loader certificate interface and mark it as trusted, according to step 8 of the certificate installation procedure in section 1.7.
Critical unspecified error	An unexpected internal error has occurred.	Exit and restart S63 Loader, and try the operation again. If the error
Unspecified error		occurs again, contact your TECDIS support contact.
Invalid argument	_	
Exception occurred		
Cryptographic error	The cryptographic subsystem of S63 Loader has encountered an internal problem.	
Secret key type mismatch	A problem with the internal cryptography logic has been encountered by S63 Loader.	
Checksum incorrect	Corruption of internal data or data being loaded has occurred.	
Startup Error: Unable to create S-63 components!	S63 Loader was unable to initialize critical S-63 components.	
Startup Error: Unable to create S-57 components!	S63 Loader was unable to initialize critical S-57 components.	
Startup Error: Unable to create	S63 Loader was unable to initialize	

critical eToken components.

## Appendix A: Revision History

Revision 1.0 (06.06.2008)

• First edition

Revision 1.1 (19.01.2009)

- Section 1 updated to reflect changes in version 1.04 of the software
- Section 2 updated to reflect changes in error messages in version 1.04 of the software









Visitor address/Shipment address: Sjømannsveien 19 N-6008 Aalesund

Postal address: Servicebox 11 N-6025 Aalesund

Telephone: +47 70 10 29 50 Telefax: +47 70 10 29 51

E-mail: furuno@furuno.no Web: www.furuno.no

## Branch office, Deep Sea Furuno Norge AS

Visitor address/Shipment address: Øvre Fyllingsvei 81 N-5162 Laksevåg

Postal address: Øvre Fyllingsvei 81 N-5162 Laksevåg

Telephone: +47 55 94 41 41 Telefax: +47 55 94 41 51

# Service telephone - +47 992 16 950

Our service telephone is served when offices are closed.